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November 13, 2006  
(PBW Project No. 1338)

VIA OVERNIGHT COURIER

Mr. Gary Miller  
Superfund Division, Region 6 (6SF-AP)  
Arkansas/Texas Section  
U.S. Environmental Protection Agency  
1445 Ross Avenue, Suite 1200  
Dallas, Texas 75202-2733

Re: October 2006 Monthly Status Report, Gulfco Marine Maintenance Site, Freeport, Texas

Dear Mr. Miller:

Pursuant to Section XII, Paragraph 53 of the modified Unilateral Administrative Order (UAO) for the above-referenced Site, Pastor, Behling & Wheeler, LLC (PBW) has prepared this monthly status report on behalf of LDL Coastal Limited LP (LDL), Chromalloy American Corporation (Chromalloy) and The Dow Chemical Company (Dow) (collectively referred to as Respondents in the UAO and the Statement of Work (SOW) attached thereto). As discussed in our telephone conversation on August 2, 2005, monthly status reports for a given month will be submitted by the 15<sup>th</sup> of the following month as required in Paragraph 53 of the UAO, rather than by the 10<sup>th</sup> of the following month as indicated in Appendix 1 of the UAO. In accordance with the UAO requirements this report addresses the topics listed below:

1. Actions which have been taken toward achieving compliance with the UAO during the previous month – The following actions were taken during the previous month:
  - RI/FS site characterization activities (SOW Paragraphs 34 through 36) detailed under Task 6 of the RI/FS Work Plan including:
    - Subtask 6.3 – Validation of the analytical data for soil samples collected from the 0 to 0.5 foot and 1 to 2 foot depth intervals at 99 on-site soil boring locations was partially completed.
    - Subtask 6.5 – Validation of the analytical data for groundwater samples from 17 monitoring wells and 8 temporary piezometers was completed. A round of water level measurements in the monitoring wells was performed.
    - Subtask 6.6 - Chemical analyses and data validation of surface water samples from the two on-site pond areas north of Marlin Avenue were completed.
    - Subtask 6.7 - Chemical analyses and data validation of sediment samples from the two on-site pond areas north of Marlin Avenue were completed.



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2. Results of sampling, tests, modeling and all other data (including raw data) received or generated by or on behalf of Respondents during the previous month – The following data were received or generated during the previous month:
  - Validation reports for groundwater, on-site ponds surface water, and on-site ponds sediment data are provided in electronic form by sample delivery group on a DVD enclosed with this report.
  - Unvalidated analytical laboratory reports, including revisions to previously-issued laboratory reports, are also provided in electronic form by sample delivery group on a DVD enclosed with this report.
3. Actions, data and plans which are scheduled for the next two months and other information relating to the progress of work – The following actions are planned for the next two months:
  - RI/FS site characterization activities (SOW Paragraphs 34 through 36) detailed under Task 6 of the RI/FS Work Plan (weather permitting) including:
    - Subtask 6.3 – Soil investigation – to be continued through additional soil sample collection, sample analyses, analytical data validation, and data evaluation.
    - Subtask 6.5 – Groundwater/NAPL investigation – to be continued through additional monitoring well installation and development, groundwater sample collection, sample analyses, analytical data validation, and data evaluation.
    - Subtask 6.6 – Surface water investigation – to be continued through wetland surface water sample collection, sample analyses, analytical data validation, and data evaluation.
    - Subtask 6.7 – Sediment investigation – to be continued through wetland and Intracoastal Waterway sediment sample collection, sample analyses, analytical data validation, and data evaluation.
    - Subtask 6.8 – Fish tissue investigation – to be initiated through fish and crab sample collection, and sample analyses.
4. Information regarding percentage of completion, all delays encountered or anticipated that may affect the future schedule for completion of the work required, and efforts made to mitigate those delays or anticipated delays – RI/FS activities are approximately 25% complete. At this time, no delays in the schedule for completion of the RI/FS, as provided in the RI/FS Work Plan, are anticipated.

Mr. Gary Miller  
November 13, 2006  
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Thank you for the opportunity to submit this status report. Should you have any questions, do not hesitate to contact me.

Sincerely,

PASTOR, BEHLING & WHEELER, LLC



Eric F. Pastor, P.E.  
Principal Engineer

Attachments

cc: Mr. Brent Murray - Sequa Corporation  
Mr. Rob Rouse - The Dow Chemical Company  
Mr. Allen Daniels - LDL Coastal Limited, LP  
Mr. F. William Mahley - Strasburger & Price, LLP  
Mr. James C. Morris III - Thompson & Knight, LLP  
Ms. Elizabeth Webb - Thompson & Knight, LLP

<b>DATA VALIDATION CHECKLIST</b> (Level III)				
ITEM	Yes	No	NA	Comment Number
Client Name: Pastor, Behling, & Wheeler				Project Number: 1352
Property Location: Gulfco Superfund Site				Project Manager: Eric Pastor
Laboratory: GCAL – Baton Rouge, LA				Laboratory Job No.: 206062938 + revision, 206083108
Reviewer: Taryn Scholz (QAA, L.L.C.)				Date Checked: 8/14/06, 9/6/06, 9/8/06, 9/29/06
<b>Chain of Custody (COC) and Sample Receipt at Lab</b>				
1. Signed COCs included and seals used?	x			1.
2. Date and time of sample collection included?	x			
3. All samples listed on the COC analyzed for in accordance with the RI/FS Work Plan?	x			
4. Field QC sample frequency met project requirements?	x			
5. Sample receipt temperature 2-6°C?	x			
6. Samples preserved appropriately?	x			
7. Samples received within 2 days of collection?		x		7.
8. No problems noted?	x			
<b>Laboratory Report and Data Package</b>				
9. Signed Case Narrative included?	x			
10. No analytical discrepancies noted in case narrative?		x		10.
11. Elevated reporting limits justified?	x			11.
12. MDLs reasonable per DCS?	x			
13. Calibration data acceptable?		x		see attached
14. ICV and CCV recoveries within project control limits?		x		see attached
15. ICB and CCB results <RL (MQL)?		x		see attached
16. Internal standard areas within project control limits?		x		16. see attached
<b>Laboratory EDD</b>				
17. Field sample IDs included?	x			
18. Laboratory sample IDs included?	x			
19. Date of analysis included?	x			
20. Date of sample preparation included?	x			
21. Samples prepared within holding time?	x			
22. Samples analyzed within holding time?	x			
23. Detection limit and quantitation limit included?	x			
24. Project target limits achieved?	x			
25. No elevated reporting limits?		x		11.
26. Method references included?	x			
27. Sample matrix included?	x			
28. Sample result units reported correctly?	x			
29. Soil/ sediment results corrected for dry-weight?	x			
30. Method blank results <RL (MDL)?		x		see attached
31. Equipment and Trip blank results <RL (MDL)?		x		see attached
32. All COIs included in LCS?	x			32.
33. LCS recovery within project control limits?		x		see attached
34. MS/MSD recoveries within project control limits?		x		see attached
35. LCS/LCSD RPDs within project control limits?		x		see attached
36. MS/MSD RPDs within project control limits?		x		see attached
37. Laboratory duplicate RPDs/Diffs within project control limits?	x			
38. Field duplicate RPDs/Diffs within project control limits?		x		38.

39. Surrogate recoveries within project control limits?		x		see attached
40. Completeness percentage within project limits?	x			
Definitions: <b>CCB</b> – Continuing Calibration Blank; <b>CCV</b> – Continuing Calibration Verification; <b>COI</b> – Compounds of Interest; <b>DCS</b> – Detectability Check Sample; <b>ICB</b> – Initial Calibration Blank; <b>ICV</b> – Initial Calibration Verification; <b>LCS</b> – Laboratory Control Sample; <b>LCSD</b> – Laboratory Control Sample Duplicate; <b>MDL</b> – Method Detection Limit; <b>MS/MSD</b> – Matrix Spike/Matrix Spike Duplicate; <b>RL</b> – Reporting Limit; <b>RPD</b> – Relative Percent Difference				

## COMMENTS

Level IV Check - GC/MS RRF for instrument calibration also included in Level III checks after deficiencies noted in first samples – see attached for deficiencies noted.

Level IV Check - GC 2<sup>nd</sup> Quant RPD also included based on deficiency found in GC06SE. See attached for deficiencies noted.

1. VOC not checked for TB or IWSE-10-010(0-0.5) - added at lab

7. Samples held 3 days but on-site except overnight shipping and at proper temp

10. Issues noted for all parameters. All are based on laboratory limits, which do not affect flagging for this site, except:

AROCOLOR – forgot spike in LCS/D, not enough sample to RE (326852) – this is batch for EQBK only  
METALS - Fe in the LB

11. VOC - All samples analyzed at 50x (med level) for 2CEV and n-Butanol due to ICAL failure for low level analysis. IWSE-03-034 (0-0.5) and IWSE-12-012 (0-0.5) diluted for IS issues due to matrix. (Other VOCs also reported at 2-5x dilution assumed due to same reason.)

16. To expedite the validation, the laboratory originally supplied the IS area comparisons for sample IWSE-03-034-(0-0.5) 1x verbally and these values were used to flag the sample results and are reported in the QC\_comment field in the validated EDD. The hardcopy report submitted on 9/29/06 indicates that the values supplied are incorrect (verbal: three internal standards are -54%,-55%,-58% of CCV; Hardcopy: three internal standards are -61%,-63%,-66% of CCV. Since all areas are still below the flagging threshold of -50% but above the rejection threshold of -75%, there is no effect on data quality and thus no further action was taken.

32. All analytes routinely spiked by lab are included as per QAPP. This is every TA except n-Butyl alcohol, Toxaphene, and the 5 middle Aroclors.

38. The reported analysis for the field duplicate IWSE-03-034-(0-0.5) compared well to the parent sample IWSE-03-003-(0-0.5) except for the VOC fraction. Further evaluation showed that the Client ID and Laboratory ID did not agree on the quantitation report and that the chromatographic profile of the field duplicate was much different from the parent sample. The laboratory corrected the Client ID but could not explain the ID discrepancy and provided a 1x dilution of the field duplicate, which was not originally submitted due to low internal standard areas. (The laboratory reran the sample at a 2x dilution and that is the analysis which was submitted and has a questionable sample ID.) The data for the 1x dilution was submitted separately in 206083108. The 1x dilution compares well to the parent sample and the internal standard area deficiency is considered to have minimal effect on data quality. The validator selected the 1x dilution for use by qualifying all analytes for the 2x dilution in the original EDD (206062938 submitted 8/14/06) with a NS-flag. Note that the results for the 1x dilution in the additional EDD (206083108v2 submitted 9/6/06) are qualified as estimated (J/UJ) due to slightly low IS area. (EDD 206083108v2 was a second submittal after the laboratory realized the first version included data for 2-Chloroethylvinyl ether, which was reported from the 50x dilution as explained above and not the low level analysis. Likewise, data for n-Butyl alcohol should have been removed. The validator marked this data with a QC comment of 'NA - this analyte reported from 50x dilution in 206062938'.)

PESTICIDE REVISIONS – As discussed in Comment no. 8 under the Level IV section for SDG 206062937, the laboratory submitted revised pesticide data for this SDG. Since the original data had already been validated and flagged, the original EDD (206062938 submitted on 8/14/06) was retained for the non-Pesticide data. The Pesticide data in the original EDD was marked with a QC comment of 'NA – revised Pesticide data submitted in 206062938rev'. Similarly, the non-Pesticide data in the revised EDD (206062938rev submitted on 9/8/06) was marked with a QC comment of 'NA – record validated in original submission 206062938'.

(Also see Comment no.1 under the Level IV Section for SDG 206062937.)

**SET SUMMARY**  
**Laboratory Job No.: 206062938 and 206083108**

17	Number of Field Samples including Field Duplicates (1)
1	Number of Field MS/MSD Pairs
1	Number of Equipment Rinsate Blanks
0	Number of Field Blanks
1	Number of VOC Trip Blanks
6	Number of Parameters (VOC, SVOC, Pesticides, Aroclors, Metals, TOC)
199	Number of Target Analytes per Sample
3456	Total Measurements for Field Samples - Two analyses (1x and 2x dilution) reported for 73 VOCs for IWSE-03-034-(0-0.5)
2732	Number of measurements with no validation qualifier (i.e., "none" in EDD)
363	Number of measurements with UJ flag (for various analytes due to low laboratory and/or matrix spike recovery; low internal standard area; poor calibration fit and/or calibration drift)
34	Number of measurements with UJ flag and an elevated SDL (for Acrolein and n-Butyl alcohol due to poor instrument response, i.e., low RRF)
4	Number of measurements with J- flag (one for Antimony due to extremely low matrix spike recovery and three for PAHs due to low laboratory spike and/or matrix spike recovery)
125	Number of measurements with J flag (due solely to result being between the SDL and SQL)
38	Number of measurements with J flag (due to result being between the SDL and SQL plus some other QC deficiency such as calibration drift or matrix spike recovery outside limits)
51	Number of measurements with J flag (seventeen for Lead and seventeen for Iron due to poor field duplicate precision plus seventeen for Zinc due to poor matrix spike duplicate precision)
0	Number of measurements with J+ flag
36	Number of measurements with U flag (due to blank contamination; analytes affected include Acetone, Bis(2-Ethylhexyl)phthalate, Di-n-butyl phthalate, Methylene chloride, and Thallium)
73	Number of measurements with NS flag
0	Number of measurements with R flag
100%	Completeness-to-date on a sample level (percentage of sediment samples with usable data, project goal 90%)
100%	Completeness-to-date on an analyte level (percentage of sediment samples with usable data for a specific analyte, project goal 80%) – all target analytes

Usability: All data suitable as qualified for the intended use. Data for Acrolein and n-Butyl alcohol usable with an elevated reporting limit for the non-detects (as given in the Electronic Data Deliverable).

## QUALIFIED DATA TABLE

<b>Field Sample Identification</b>	<b>Analyte</b>	<b>Data Qualifier</b>	<b>Reason for Qualification</b>
IWSE-01-001-(0-0.5)	Antimony	J	result between SDL and SQL; extremely low MS/MSD recovery (28%)
IWSE-01-001-(0-0.5)	Iron	J	poor field duplicate precision (64 RPD)
IWSE-01-001-(0-0.5)	Lead	J	poor field duplicate precision (56 RPD)
IWSE-01-001-(0-0.5)	Molybdenum	J	result between SDL and SQL
IWSE-01-001-(0-0.5)	Silver	J	result between SDL and SQL
IWSE-01-001-(0-0.5)	Thallium	U	result between SDL and SQL; equipment blank contamination (0.0055 B mg/L)
IWSE-01-001-(0-0.5)	Zinc	J	poor MS/MSD precision (34 RPD)
IWSE-01-001-(0-0.5)	4,4'-DDT	J	calibration drift (%D= 19); low ave MS/MSD recovery (34.5%)
IWSE-01-001-(0-0.5)	Endosulfan I	UJ	low ave LCS/LCSD recovery (50.5%); high ave MS/MSD recovery (305%); poor MS/MSD precision (142 RPD)
IWSE-01-001-(0-0.5)	Methoxychlor	UJ	low ave MS/MSD recovery (31%)
IWSE-01-001-(0-0.5)	2-Chloroethylvinyl ether	UJ	low ave MS/MSD recovery (47%)
IWSE-01-001-(0-0.5)	Acrolein	UJ	low instrument response (low RRF); elevate SDL for NDs 5x (Sed); low ave MS/MSD recovery (27.5%)
IWSE-01-001-(0-0.5)	n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 5x (Sed)
IWSE-01-001-(0-0.5)	Vinyl chloride	UJ	poor calibration fit (%RSD=18)
IWSE-01-001-(0-0.5)	2,4-Dinitrophenol	UJ	low ave LCS/LCSD recovery (57%)
IWSE-01-001-(0-0.5)	3-Nitroaniline	UJ	low ave LCS/LCSD recovery (59%); low ave MS/MSD recovery (58%)
IWSE-01-001-(0-0.5)	4-Nitroaniline	UJ	low ave MS/MSD recovery (54%)
IWSE-01-001-(0-0.5)	Benzaldehyde	UJ	low ave MS/MSD recovery (52%)
IWSE-01-001-(0-0.5)	Benzidine	UJ	calibration drift (%D= -29); low ave LCS/LCSD recovery (50.5%); low ave MS/MSD recovery (30%)
IWSE-01-001-(0-0.5)	Benzo(b)fluoranthene	J	result between SDL and SQL
IWSE-01-001-(0-0.5)	Benzo(k)fluoranthene	UJ	low ave LCS/LCSD recovery (58%)
IWSE-01-001-(0-0.5)	Benzoic acid	UJ	low ave MS/MSD recovery (38.5%)
IWSE-01-001-(0-0.5)	Bis(2-Ethylhexyl)phthalate	U	result between SDL and SQL; laboratory blank contamination (20.4 J ug/Kg); equipment blank contamination ( 22.8 ug/L)
IWSE-01-001-(0-0.5)	Chrysene	J	result between SDL and SQL
IWSE-01-001-(0-0.5)	Fluoranthene	J	result between SDL and SQL; low ave LCS/LCSD recovery (58.5%); low ave MS/MSD recovery (55.5%)
IWSE-01-001-(0-0.5)	Hexachlorocyclopentadiene	UJ	low ave LCS/LCSD recovery (37.5%); low ave MS/MSD recovery (52.5%)
IWSE-01-001-(0-0.5)	Hexachloroethane	UJ	low ave LCS/LCSD recovery (54.5%); low ave MS/MSD recovery (58%)
IWSE-01-001-(0-0.5)	Phenanthrene	J	result between SDL and SQL
IWSE-01-001-(0-0.5)	Phenol	UJ	poor calibration fit (%RSD=20)
IWSE-01-001-(0-0.5)	Pyrene	J	result between SDL and SQL
IWSE-01-001-(0-0.5)	Pyridine	UJ	poor calibration fit (%RSD=16); low ave LCS/LCSD recovery (49.5%)
IWSE-02-002-(0-0.5)	Antimony	J	result between SDL and SQL; extremely low MS/MSD recovery (28%)
IWSE-02-002-(0-0.5)	Iron	J	poor field duplicate precision (64 RPD)
IWSE-02-002-(0-0.5)	Lead	J	poor field duplicate precision (56 RPD)
IWSE-02-002-(0-0.5)	Molybdenum	J	result between SDL and SQL
IWSE-02-002-(0-0.5)	Silver	J	result between SDL and SQL
IWSE-02-002-(0-0.5)	Thallium	U	result between SDL and SQL; equipment blank contamination (0.0055 B mg/L)
IWSE-02-002-(0-0.5)	Zinc	J	poor MS/MSD precision (34 RPD)
IWSE-02-002-(0-0.5)	4,4'-DDT	UJ	low ave MS/MSD recovery (34.5%)
IWSE-02-002-(0-0.5)	Endosulfan I	UJ	low ave LCS/LCSD recovery (50.5%); high ave MS/MSD

**QUALIFIED DATA TABLE**

<b>Field Sample Identification</b>	<b>Analyte</b>	<b>Data Qualifier</b>	<b>Reason for Qualification</b>
			recovery (305%); poor MS/MSD precision (142 RPD)
IWSE-02-002-(0-0.5)	Methoxychlor	UJ	low ave MS/MSD recovery (31%)
IWSE-02-002-(0-0.5)	2-Chloroethylvinyl ether	UJ	low ave MS/MSD recovery (47%)
IWSE-02-002-(0-0.5)	Acrolein	UJ	low instrument response (low RRF); elevate SDL for NDs 5x (Sed); low ave MS/MSD recovery (27.5%)
IWSE-02-002-(0-0.5)	n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 5x (Sed)
IWSE-02-002-(0-0.5)	Vinyl chloride	UJ	poor calibration fit (%RSD=18)
IWSE-02-002-(0-0.5)	2,4-Dinitrophenol	UJ	low ave LCS/LCSD recovery (57%)
IWSE-02-002-(0-0.5)	3-Nitroaniline	UJ	low ave LCS/LCSD recovery (59%); low ave MS/MSD recovery (58%)
IWSE-02-002-(0-0.5)	4-Nitroaniline	UJ	low ave MS/MSD recovery (54%)
IWSE-02-002-(0-0.5)	Anthracene	J	result between SDL and SQL
IWSE-02-002-(0-0.5)	Benzaldehyde	UJ	low ave MS/MSD recovery (52%)
IWSE-02-002-(0-0.5)	Benzidine	UJ	calibration drift (%D= -29); low ave LCS/LCSD recovery (50.5%); low ave MS/MSD recovery (30%)
IWSE-02-002-(0-0.5)	Benzo(a)pyrene	J	result between SDL and SQL
IWSE-02-002-(0-0.5)	Benzo(b)fluoranthene	J	result between SDL and SQL
IWSE-02-002-(0-0.5)	Benzo(g,h,i)perylene	J	result between SDL and SQL
IWSE-02-002-(0-0.5)	Benzo(k)fluoranthene	J	result between SDL and SQL; low ave LCS/LCSD recovery (58%)
IWSE-02-002-(0-0.5)	Benzoic acid	UJ	low ave MS/MSD recovery (38.5%)
IWSE-02-002-(0-0.5)	Bis(2-Ethylhexyl)phthalate	U	result between SDL and SQL; laboratory blank contamination (20.4 ug/Kg); equipment blank contamination ( 22.8 ug/L)
IWSE-02-002-(0-0.5)	Chrysene	J	result between SDL and SQL
IWSE-02-002-(0-0.5)	Dibenz(a,h)anthracene	J	result between SDL and SQL
IWSE-02-002-(0-0.5)	Fluoranthene	J	result between SDL and SQL; low ave LCS/LCSD recovery (58.5%); low ave MS/MSD recovery (55.5%)
IWSE-02-002-(0-0.5)	Fluorene	J	result between SDL and SQL
IWSE-02-002-(0-0.5)	Hexachlorocyclopentadiene	UJ	low ave LCS/LCSD recovery (37.5%); low ave MS/MSD recovery (52.5%)
IWSE-02-002-(0-0.5)	Hexachloroethane	UJ	low ave LCS/LCSD recovery (54.5%); low ave MS/MSD recovery (58%)
IWSE-02-002-(0-0.5)	Indeno(1,2,3-cd)pyrene	J	result between SDL and SQL
IWSE-02-002-(0-0.5)	Phenol	UJ	poor calibration fit (%RSD=20)
IWSE-02-002-(0-0.5)	Pyrene	J	result between SDL and SQL
IWSE-02-002-(0-0.5)	Pyridine	UJ	poor calibration fit (%RSD=16); low ave LCS/LCSD recovery (49.5%)
IWSE-03-003-(0-0.5)	Antimony	J	result between SDL and SQL; extremely low MS/MSD recovery (28%)
IWSE-03-003-(0-0.5)	Iron	J	poor field duplicate precision (64 RPD)
IWSE-03-003-(0-0.5)	Lead	J	poor field duplicate precision (56 RPD)
IWSE-03-003-(0-0.5)	Molybdenum	J	result between SDL and SQL
IWSE-03-003-(0-0.5)	Silver	J	result between SDL and SQL
IWSE-03-003-(0-0.5)	Thallium	U	result between SDL and SQL; equipment blank contamination (0.0055 B mg/L)
IWSE-03-003-(0-0.5)	Zinc	J	poor MS/MSD precision (34 RPD)
IWSE-03-003-(0-0.5)	4,4'-DDT	J	result is between SDL and SQL; low ave MS/MSD recovery (34.5%)
IWSE-03-003-(0-0.5)	Endosulfan I	UJ	low ave LCS/LCSD recovery (50.5%); high ave MS/MSD recovery (305%); poor MS/MSD precision (142 RPD)
IWSE-03-003-(0-0.5)	Methoxychlor	UJ	low ave MS/MSD recovery (31%)
IWSE-03-003-(0-0.5)	2-Chloroethylvinyl ether	UJ	low ave MS/MSD recovery (47%)
IWSE-03-003-(0-0.5)	Acrolein	UJ	low instrument response (low RRF); elevate SDL for NDs 5x

**QUALIFIED DATA TABLE**

<b>Field Sample Identification</b>	<b>Analyte</b>	<b>Data Qualifier</b>	<b>Reason for Qualification</b>
			(Sed); low ave MS/MSD recovery (27.5%)
IWSE-03-003-(0-0.5)	n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 5x (Sed)
IWSE-03-003-(0-0.5)	Vinyl chloride	UJ	poor calibration fit (%RSD=18)
IWSE-03-003-(0-0.5)	2,4-Dinitrophenol	UJ	low ave LCS/LCSD recovery (45%)
IWSE-03-003-(0-0.5)	2-Methylnaphthalene	J	result between SDL and SQL
IWSE-03-003-(0-0.5)	3-Nitroaniline	UJ	low ave MS/MSD recovery (58%)
IWSE-03-003-(0-0.5)	4-Chloroaniline	UJ	low ave LCS/LCSD recovery (56.5%)
IWSE-03-003-(0-0.5)	4-Nitroaniline	UJ	low ave MS/MSD recovery (54%)
IWSE-03-003-(0-0.5)	Acenaphthene	J	result between SDL and SQL
IWSE-03-003-(0-0.5)	Anthracene	J	result between SDL and SQL
IWSE-03-003-(0-0.5)	Benzaldehyde	UJ	calibration drift (%D= -45); low ave LCS/LCSD recovery (20%); low ave MS/MSD recovery (52%)
IWSE-03-003-(0-0.5)	Benzidine	UJ	calibration drift (%D= -86); low ave LCS/LCSD recovery (42%); low ave MS/MSD recovery (30%)
IWSE-03-003-(0-0.5)	Benzo(g,h,i)perylene	J	result between SDL and SQL
IWSE-03-003-(0-0.5)	Benzo(k)fluoranthene	J	result between SDL and SQL
IWSE-03-003-(0-0.5)	Benzoic acid	UJ	low ave MS/MSD recovery (38.5%)
IWSE-03-003-(0-0.5)	Bis(2-Ethylhexyl)phthalate	U	laboratory blank contamination (13.8 J ug/Kg); equipment blank contamination ( 22.8 ug/L)
IWSE-03-003-(0-0.5)	Carbazole	J	result between SDL and SQL
IWSE-03-003-(0-0.5)	Chrysene	J	result between SDL and SQL
IWSE-03-003-(0-0.5)	Dibenzofuran	J	result between SDL and SQL
IWSE-03-003-(0-0.5)	Di-n-butyl phthalate	U	result between SDL and SQL; equipment blank contamination (2.5 J ug/L)
IWSE-03-003-(0-0.5)	Di-n-octyl phthalate	J	result between SDL and SQL
IWSE-03-003-(0-0.5)	Fluoranthene	J-	low ave MS/MSD recovery (55.5%)
IWSE-03-003-(0-0.5)	Fluorene	J	result between SDL and SQL
IWSE-03-003-(0-0.5)	Hexachlorocyclopentadiene	UJ	low ave MS/MSD recovery (52.5%)
IWSE-03-003-(0-0.5)	Hexachloroethane	UJ	low ave LCS/LCSD recovery (59.5%); low ave MS/MSD recovery (58%)
IWSE-03-003-(0-0.5)	Indeno(1,2,3-cd)pyrene	J	result between SDL and SQL
IWSE-03-003-(0-0.5)	Phenol	UJ	poor calibration fit (%RSD=20)
IWSE-03-003-(0-0.5)	Pyridine	UJ	poor calibration fit (%RSD=16)
IWSE-03-034-(0-0.5)	Antimony	J	result between SDL and SQL; extremely low MS/MSD recovery (28%)
IWSE-03-034-(0-0.5)	Iron	J	poor field duplicate precision (64 RPD)
IWSE-03-034-(0-0.5)	Lead	J	poor field duplicate precision (56 RPD)
IWSE-03-034-(0-0.5)	Molybdenum	J	result between SDL and SQL
IWSE-03-034-(0-0.5)	Silver	J	result between SDL and SQL
IWSE-03-034-(0-0.5)	Thallium	U	result between SDL and SQL; equipment blank contamination (0.0055 B mg/L)
IWSE-03-034-(0-0.5)	Zinc	J	poor MS/MSD precision (34 RPD)
IWSE-03-034-(0-0.5)	4,4'-DDE	J	result is between SDL and SQL; high ave MS/MSD recovery (352.5%); poor MS/MSD precision (130 RPD)
IWSE-03-034-(0-0.5)	4,4'-DDT	UJ	low ave MS/MSD recovery (34.5%)
IWSE-03-034-(0-0.5)	Endosulfan I	UJ	low ave LCS/LCSD recovery (50.5%); high ave MS/MSD recovery (305%); poor MS/MSD precision (142 RPD)
IWSE-03-034-(0-0.5)	Methoxychlor	UJ	low ave MS/MSD recovery (31%)
IWSE-03-034-(0-0.5)	1,1,1,2-Tetrachloroethane	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	1,1,1-Trichloroethane	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result

## QUALIFIED DATA TABLE

<b>Field Sample Identification</b>	<b>Analyte</b>	<b>Data Qualifier</b>	<b>Reason for Qualification</b>
IWSE-03-034-(0-0.5)	1,1,2,2-Tetrachloroethane	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	1,1,2-Trichloroethane	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	1,1-Dichloroethane	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	1,1-Dichloroethene	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	1,1-Dichloropropene	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	1,2,3-Trichloropropane	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	1,2,4-Trichlorobenzene	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	1,2,4-Trimethylbenzene	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	1,2-Dibromo-3-chloropropane	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	1,2-Dibromoethane	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	1,2-Dichlorobenzene	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	1,2-Dichloroethane	NS	calibration drift (%D= -21); sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	1,2-Dichloropropane	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	1,3,5-Trimethylbenzene	NS	result between SDL and SQL; sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	1,3-Dichlorobenzene	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	1,3-Dichloropropane	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	1,4-Dichlorobenzene	NS	result between SDL and SQL; sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	2,2-Dichloropropane	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	2-Butanone	NS	result between SDL and SQL; sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	2-Chloroethylvinyl ether	UJ	low ave MS/MSD recovery (47%)
IWSE-03-034-(0-0.5)	2-Chlorotoluene	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	2-Hexanone	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	4-Chlorotoluene	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	4-Isopropyltoluene	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	4-Methyl-2-pentanone	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	Acetone	NS	result between SDL and SQL; calibration drift (%D= 28); trip blank contamination (6.86 J ug/L); equipment blank contamination (4.35 J ug/L); sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	Acrolein	NS	low instrument response (low RRF); elevate SDL for NDs 5x (Sed); calibration drift (%D= -36); low ave MS/MSD recovery

## QUALIFIED DATA TABLE

<b>Field Sample Identification</b>	<b>Analyte</b>	<b>Data Qualifier</b>	<b>Reason for Qualification</b>
			(27.5%); sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	Acrylonitrile	NS	calibration drift (%D= -23); sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	Benzene	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	Bromobenzene	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	Bromodichloromethane	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	Bromoform	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	Bromomethane	NS	calibration drift (%D= -23); sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	Carbon disulfide	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	Carbon tetrachloride	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	Chlorobenzene	NS	result between SDL and SQL; sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	Chloroethane	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	Chloroform	NS	result between SDL and SQL; sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	Chloromethane	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	cis-1,2-Dichloroethene	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	cis-1,3-Dichloropropene	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	Cyclohexane	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	Dibromochloromethane	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	Dibromomethane	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	Dichlorodifluoromethane	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	Ethylbenzene	NS	result between SDL and SQL; sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	Hexachlorobutadiene	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	Isopropylbenzene (Cumene)	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	m,p-Xylene	NS	result between SDL and SQL; sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	Methyl Acetate	NS	calibration drift (%D= -27); sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	Methyl iodide	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	Methylcyclohexane	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	Methylene chloride	NS	result between SDL and SQL; trip blank contamination (3.63 J

## QUALIFIED DATA TABLE

<b>Field Sample Identification</b>	<b>Analyte</b>	<b>Data Qualifier</b>	<b>Reason for Qualification</b>
			ug/L); equipment blank contamination (3.21 J ug/L); sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	Naphthalene	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 5x (Sed)
IWSE-03-034-(0-0.5)	n-Butylbenzene	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	n-Propylbenzene	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	o-Xylene	NS	result between SDL and SQL; sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	sec-Butylbenzene	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	Styrene	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	tert-Butyl methyl ether (MTBE)	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	tert-Butylbenzene	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	Tetrachloroethene	NS	result between SDL and SQL; equipment blank contamination (1.12 J ug/L); sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	Toluene	NS	result between SDL and SQL; sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	trans-1,2-Dichloroethene	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	trans-1,3-Dichloropropene	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	trans-1,4-Dichloro-2-butene	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	Trichloroethene	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	Trichlorofluoromethane	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	Trichlorotrifluoroethane	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	Vinyl acetate	NS	sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	Vinyl chloride	NS	poor calibration fit (%RSD=19); sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	Xylene (total)	NS	result between SDL and SQL; sample ID in question; poor field duplicate precision; another analysis selected based on QC and the reported result
IWSE-03-034-(0-0.5)	2,4-Dinitrophenol	UJ	low ave LCS/LCSD recovery (57%)
IWSE-03-034-(0-0.5)	2-Methylnaphthalene	J	result between SDL and SQL
IWSE-03-034-(0-0.5)	3-Nitroaniline	UJ	low ave LCS/LCSD recovery (59%); low ave MS/MSD recovery (58%)
IWSE-03-034-(0-0.5)	4-Nitroaniline	UJ	low ave MS/MSD recovery (54%)
IWSE-03-034-(0-0.5)	Acenaphthene	J	result between SDL and SQL
IWSE-03-034-(0-0.5)	Benzaldehyde	UJ	low ave MS/MSD recovery (52%)
IWSE-03-034-(0-0.5)	Benzidine	UJ	calibration drift (%D= -29); low ave LCS/LCSD recovery (50.5%); low ave MS/MSD recovery (30%)

## QUALIFIED DATA TABLE

<b>Field Sample Identification</b>	<b>Analyte</b>	<b>Data Qualifier</b>	<b>Reason for Qualification</b>
IWSE-03-034-(0-0.5)	Benzo(k)fluoranthene	J-	low ave LCS/LCSD recovery (58%)
IWSE-03-034-(0-0.5)	Benzoic acid	UJ	low ave MS/MSD recovery (38.5%)
IWSE-03-034-(0-0.5)	Bis(2-Ethylhexyl)phthalate	U	laboratory blank contamination (20.4 J ug/Kg); equipment blank contamination ( 22.8 ug/L)
IWSE-03-034-(0-0.5)	Carbazole	J	result between SDL and SQL
IWSE-03-034-(0-0.5)	Dibenzofuran	J	result between SDL and SQL
IWSE-03-034-(0-0.5)	Di-n-butyl phthalate	U	result between SDL and SQL; equipment blank contamination (2.5 J ug/L)
IWSE-03-034-(0-0.5)	Fluoranthene	J-	low ave LCS/LCSD recovery (58.5%); low ave MS/MSD recovery (55.5%)
IWSE-03-034-(0-0.5)	Fluorene	J	result between SDL and SQL
IWSE-03-034-(0-0.5)	Hexachlorocyclopentadiene	UJ	low ave LCS/LCSD recovery (37.5%); low ave MS/MSD recovery (52.5%)
IWSE-03-034-(0-0.5)	Hexachloroethane	UJ	low ave LCS/LCSD recovery (54.5%); low ave MS/MSD recovery (58%)
IWSE-03-034-(0-0.5)	Phenol	UJ	poor calibration fit (%RSD=20)
IWSE-03-034-(0-0.5)	Pyridine	UJ	poor calibration fit (%RSD=16); low ave LCS/LCSD recovery (49.5%)
IWSE-03-034-(0-0.5) 1X	1,1,1,2-Tetrachloroethane	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	1,1,1-Trichloroethane	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	1,1,2,2-Tetrachloroethane	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	1,1,2-Trichloroethane	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	1,1-Dichloroethane	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	1,1-Dichloroethene	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	1,1-Dichloropropene	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	1,2,3-Trichloropropane	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	1,2,4-Trichlorobenzene	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	1,2,4-Trimethylbenzene	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	1,2-Dibromo-3-chloropropane	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	1,2-Dibromoethane	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	1,2-Dichlorobenzene	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	1,2-Dichloroethane	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	1,2-Dichloropropane	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	1,3,5-Trimethylbenzene	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	1,3-Dichlorobenzene	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	1,3-Dichloropropane	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	1,4-Dichlorobenzene	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	2,2-Dichloropropane	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)

## QUALIFIED DATA TABLE

<b>Field Sample Identification</b>	<b>Analyte</b>	<b>Data Qualifier</b>	<b>Reason for Qualification</b>
IWSE-03-034-(0-0.5) 1X	2-Butanone	J	result is between SDL and SQL; low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	2-Chlorotoluene	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	2-Hexanone	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	4-Chlorotoluene	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	4-Isopropyltoluene	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	4-Methyl-2-pentanone	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	Acetone	U	result is between SDL and SQL; equipment blank contamination (J 4.35 ug/L); trip blank contamination (J 6.86 ug/L); low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	Acrolein	UJ	low instrument response (low RRF); elevate SDL for NDs 5x (Sed); calibration drift (%D= -29); low ave MS/MSD recovery (27.5%); low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	Acrylonitrile	UJ	calibration drift (%D= -26); low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	Benzene	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	Bromobenzene	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	Bromodichloromethane	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	Bromoform	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	Bromomethane	UJ	calibration drift (%D= -22); low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	Carbon disulfide	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	Carbon tetrachloride	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	Chlorobenzene	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	Chloroethane	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	Chloroform	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	Chloromethane	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	cis-1,2-Dichloroethene	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	cis-1,3-Dichloropropene	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	Cyclohexane	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	Dibromochloromethane	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	Dibromomethane	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	Dichlorodifluoromethane	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	Ethylbenzene	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	Hexachlorobutadiene	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)

## QUALIFIED DATA TABLE

<b>Field Sample Identification</b>	<b>Analyte</b>	<b>Data Qualifier</b>	<b>Reason for Qualification</b>
IWSE-03-034-(0-0.5) 1X	Isopropylbenzene (Cumene)	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	m,p-Xylene	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	Methyl Acetate	UJ	calibration drift (%D= -30); low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	Methyl iodide	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	Methylcyclohexane	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	Methylene chloride	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	Naphthalene	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	n-Butylbenzene	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	n-Propylbenzene	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	o-Xylene	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	sec-Butylbenzene	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	Styrene	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	tert-Butyl methyl ether (MTBE)	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	tert-Butylbenzene	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	Tetrachloroethene	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	Toluene	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	trans-1,2-Dichloroethene	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	trans-1,3-Dichloropropene	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	trans-1,4-Dichloro-2-butene	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	Trichloroethene	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	Trichlorofluoromethane	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	Trichlorotrifluoroethane	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	Vinyl acetate	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	Vinyl chloride	UJ	poor calibration fit (%RSD=19); low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-03-034-(0-0.5) 1X	Xylene (total)	UJ	low internal standard areas (-54%, -55%, -58% of daily standard areas)
IWSE-04-004(0-0.5)	Antimony	J	result between SDL and SQL; extremely low MS/MSD recovery (28%)
IWSE-04-004(0-0.5)	Iron	J	poor field duplicate precision (64 RPD)
IWSE-04-004(0-0.5)	Lead	J	poor field duplicate precision (56 RPD)
IWSE-04-004(0-0.5)	Molybdenum	J	result between SDL and SQL
IWSE-04-004(0-0.5)	Silver	J	result between SDL and SQL
IWSE-04-004(0-0.5)	Thallium	U	result between SDL and SQL; equipment blank contamination (0.0055 B mg/L)
IWSE-04-004(0-0.5)	Zinc	J	poor MS/MSD precision (34 RPD)

**QUALIFIED DATA TABLE**

<b>Field Sample Identification</b>	<b>Analyte</b>	<b>Data Qualifier</b>	<b>Reason for Qualification</b>
IWSE-04-004(0-0.5)	4,4'-DDT	J	result is between SDL and SQL; calibration drift (%D= 23); low ave MS/MSD recovery (34.5%)
IWSE-04-004(0-0.5)	Endosulfan I	UJ	low ave LCS/LCSD recovery (50.5%); high ave MS/MSD recovery (305%); poor MS/MSD precision (142 RPD)
IWSE-04-004(0-0.5)	Methoxychlor	UJ	low ave MS/MSD recovery (31%)
IWSE-04-004(0-0.5)	2-Chloroethylvinyl ether	UJ	low ave MS/MSD recovery (47%)
IWSE-04-004(0-0.5)	Acrolein	UJ	low instrument response (low RRF); elevate SDL for NDs 5x (Sed); calibration drift (%D= -29); low ave MS/MSD recovery (27.5%)
IWSE-04-004(0-0.5)	Acrylonitrile	UJ	calibration drift (%D= -26)
IWSE-04-004(0-0.5)	Bromomethane	UJ	calibration drift (%D= -22)
IWSE-04-004(0-0.5)	Methyl Acetate	UJ	calibration drift (%D= -30)
IWSE-04-004(0-0.5)	n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 5x (Sed)
IWSE-04-004(0-0.5)	Vinyl chloride	UJ	poor calibration fit (%RSD=19)
IWSE-04-004(0-0.5)	2,4-Dinitrophenol	UJ	low ave LCS/LCSD recovery (57%)
IWSE-04-004(0-0.5)	3-Nitroaniline	UJ	low ave LCS/LCSD recovery (59%); low ave MS/MSD recovery (58%)
IWSE-04-004(0-0.5)	4-Nitroaniline	UJ	low ave MS/MSD recovery (54%)
IWSE-04-004(0-0.5)	Anthracene	J	result between SDL and SQL
IWSE-04-004(0-0.5)	Benzaldehyde	UJ	low ave MS/MSD recovery (52%)
IWSE-04-004(0-0.5)	Benzidine	UJ	calibration drift (%D= -29); low ave LCS/LCSD recovery (50.5%); low ave MS/MSD recovery (30%)
IWSE-04-004(0-0.5)	Benzo(b)fluoranthene	J	result between SDL and SQL
IWSE-04-004(0-0.5)	Benzo(g,h,i)perylene	J	result between SDL and SQL
IWSE-04-004(0-0.5)	Benzo(k)fluoranthene	J	result between SDL and SQL; low ave LCS/LCSD recovery (58%)
IWSE-04-004(0-0.5)	Benzoic acid	UJ	low ave MS/MSD recovery (38.5%)
IWSE-04-004(0-0.5)	Bis(2-Ethylhexyl)phthalate	U	result between SDL and SQL; laboratory blank contamination (20.4 J ug/Kg); equipment blank contamination ( 22.8 ug/L)
IWSE-04-004(0-0.5)	Chrysene	J	result between SDL and SQL
IWSE-04-004(0-0.5)	Dibenz(a,h)anthracene	J	result between SDL and SQL
IWSE-04-004(0-0.5)	Di-n-butyl phthalate	U	result between SDL and SQL; equipment blank contamination (2.5 J ug/L)
IWSE-04-004(0-0.5)	Fluoranthene	J	result between SDL and SQL; low ave LCS/LCSD recovery (58.5%); low ave MS/MSD recovery (55.5%)
IWSE-04-004(0-0.5)	Hexachlorocyclopentadiene	UJ	low ave LCS/LCSD recovery (37.5%); low ave MS/MSD recovery (52.5%)
IWSE-04-004(0-0.5)	Hexachloroethane	UJ	low ave LCS/LCSD recovery (54.5%); low ave MS/MSD recovery (58%)
IWSE-04-004(0-0.5)	Indeno(1,2,3-cd)pyrene	J	result between SDL and SQL
IWSE-04-004(0-0.5)	Phenanthrene	J	result between SDL and SQL
IWSE-04-004(0-0.5)	Phenol	UJ	poor calibration fit (%RSD=20)
IWSE-04-004(0-0.5)	Pyrene	J	result between SDL and SQL
IWSE-04-004(0-0.5)	Pyridine	UJ	poor calibration fit (%RSD=16); low ave LCS/LCSD recovery (49.5%)
IWSE-05-005(0-0.5)	Antimony	J	result between SDL and SQL; extremely low MS/MSD recovery (28%)
IWSE-05-005(0-0.5)	Iron	J	poor field duplicate precision (64 RPD)
IWSE-05-005(0-0.5)	Lead	J	poor field duplicate precision (56 RPD)
IWSE-05-005(0-0.5)	Molybdenum	J	result between SDL and SQL
IWSE-05-005(0-0.5)	Silver	J	result between SDL and SQL
IWSE-05-005(0-0.5)	Thallium	U	result between SDL and SQL; equipment blank contamination (0.0055 B mg/L)

## QUALIFIED DATA TABLE

<b>Field Sample Identification</b>	<b>Analyte</b>	<b>Data Qualifier</b>	<b>Reason for Qualification</b>
IWSE-05-005(0-0.5)	Zinc	J	poor MS/MSD precision (34 RPD)
IWSE-05-005(0-0.5)	4,4'-DDT	UJ	low ave MS/MSD recovery (34.5%)
IWSE-05-005(0-0.5)	Endosulfan I	UJ	low ave LCS/LCSD recovery (50.5%); high ave MS/MSD recovery (305%); poor MS/MSD precision (142 RPD)
IWSE-05-005(0-0.5)	Methoxychlor	UJ	low ave MS/MSD recovery (31%)
IWSE-05-005(0-0.5)	2-Chloroethylvinyl ether	UJ	poor calibration fit (%RSD=26); low ave MS/MSD recovery (47%)
IWSE-05-005(0-0.5)	Acetone	U	result between SDL and SQL; trip blank contamination (6.86 J ug/L); equipment blank contamination (4.35 J ug/L)
IWSE-05-005(0-0.5)	Acrolein	UJ	low instrument response (low RRF); elevate SDL for NDs 5x (Sed); low ave MS/MSD recovery (27.5%)
IWSE-05-005(0-0.5)	n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (SW) or 50x (Sed)
IWSE-05-005(0-0.5)	Vinyl chloride	UJ	poor calibration fit (%RSD=18)
IWSE-05-005(0-0.5)	2,4-Dinitrophenol	UJ	low ave LCS/LCSD recovery (57%)
IWSE-05-005(0-0.5)	3-Nitroaniline	UJ	low ave LCS/LCSD recovery (59%); low ave MS/MSD recovery (58%)
IWSE-05-005(0-0.5)	4-Nitroaniline	UJ	low ave MS/MSD recovery (54%)
IWSE-05-005(0-0.5)	Anthracene	J	result between SDL and SQL
IWSE-05-005(0-0.5)	Benzaldehyde	UJ	low ave MS/MSD recovery (52%)
IWSE-05-005(0-0.5)	Benzidine	UJ	calibration drift (%D= -29); low ave LCS/LCSD recovery (50.5%); low ave MS/MSD recovery (30%)
IWSE-05-005(0-0.5)	Benzo(a)pyrene	J	result between SDL and SQL
IWSE-05-005(0-0.5)	Benzo(b)fluoranthene	J	result between SDL and SQL
IWSE-05-005(0-0.5)	Benzo(g,h,i)perylene	J	result between SDL and SQL
IWSE-05-005(0-0.5)	Benzo(k)fluoranthene	J	result between SDL and SQL; low ave LCS/LCSD recovery (58%)
IWSE-05-005(0-0.5)	Benzoic acid	UJ	low ave MS/MSD recovery (38.5%)
IWSE-05-005(0-0.5)	Bis(2-Ethylhexyl)phthalate	U	result between SDL and SQL; laboratory blank contamination (20.4 J ug/Kg); equipment blank contamination ( 22.8 ug/L)
IWSE-05-005(0-0.5)	Carbazole	J	result between SDL and SQL
IWSE-05-005(0-0.5)	Chrysene	J	result between SDL and SQL
IWSE-05-005(0-0.5)	Dibenz(a,h)anthracene	J	result between SDL and SQL
IWSE-05-005(0-0.5)	Fluoranthene	J	result between SDL and SQL; low ave LCS/LCSD recovery (58.5%); low ave MS/MSD recovery (55.5%)
IWSE-05-005(0-0.5)	Fluorene	J	result between SDL and SQL
IWSE-05-005(0-0.5)	Hexachlorocyclopentadiene	UJ	low ave LCS/LCSD recovery (37.5%); low ave MS/MSD recovery (52.5%)
IWSE-05-005(0-0.5)	Hexachloroethane	UJ	low ave LCS/LCSD recovery (54.5%); low ave MS/MSD recovery (58%)
IWSE-05-005(0-0.5)	Indeno(1,2,3-cd)pyrene	J	result between SDL and SQL
IWSE-05-005(0-0.5)	Phenol	UJ	poor calibration fit (%RSD=20)
IWSE-05-005(0-0.5)	Pyrene	J	result between SDL and SQL
IWSE-05-005(0-0.5)	Pyridine	UJ	poor calibration fit (%RSD=16); low ave LCS/LCSD recovery (49.5%)
IWSE-06-006(0-0.5)	Antimony	J	result between SDL and SQL; extremely low MS/MSD recovery (28%)
IWSE-06-006(0-0.5)	Iron	J	poor field duplicate precision (64 RPD)
IWSE-06-006(0-0.5)	Lead	J	poor field duplicate precision (56 RPD)
IWSE-06-006(0-0.5)	Molybdenum	J	result between SDL and SQL
IWSE-06-006(0-0.5)	Silver	J	result between SDL and SQL
IWSE-06-006(0-0.5)	Thallium	U	result between SDL and SQL; equipment blank contamination (0.0055 B mg/L)
IWSE-06-006(0-0.5)	Zinc	J	poor MS/MSD precision (34 RPD)

**QUALIFIED DATA TABLE**

<b>Field Sample Identification</b>	<b>Analyte</b>	<b>Data Qualifier</b>	<b>Reason for Qualification</b>
IWSE-06-006(0-0.5)	4,4'-DDT	UJ	low ave MS/MSD recovery (34.5%)
IWSE-06-006(0-0.5)	Endosulfan I	UJ	low ave LCS/LCSD recovery (50.5%); high ave MS/MSD recovery (305%); poor MS/MSD precision (142 RPD)
IWSE-06-006(0-0.5)	Methoxychlor	UJ	low ave MS/MSD recovery (31%)
IWSE-06-006(0-0.5)	2-Chloroethylvinyl ether	UJ	poor calibration fit (%RSD=26); low ave MS/MSD recovery (47%)
IWSE-06-006(0-0.5)	Acetone	U	result between SDL and SQL; trip blank contamination (6.86 J ug/L); equipment blank contamination (4.35 J ug/L)
IWSE-06-006(0-0.5)	Acrolein	UJ	low instrument response (low RRF); elevate SDL for NDs 5x (Sed); calibration drift (%D= -29); low ave MS/MSD recovery (27.5%)
IWSE-06-006(0-0.5)	Acrylonitrile	UJ	calibration drift (%D= -26)
IWSE-06-006(0-0.5)	Bromomethane	UJ	calibration drift (%D= -22)
IWSE-06-006(0-0.5)	Methyl Acetate	UJ	calibration drift (%D= -30)
IWSE-06-006(0-0.5)	n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (SW) or 50x (Sed)
IWSE-06-006(0-0.5)	Vinyl chloride	UJ	poor calibration fit (%RSD=19)
IWSE-06-006(0-0.5)	2,4-Dinitrophenol	UJ	low ave LCS/LCSD recovery (45%)
IWSE-06-006(0-0.5)	3-Nitroaniline	UJ	low ave MS/MSD recovery (58%)
IWSE-06-006(0-0.5)	4-Chloroaniline	UJ	low ave LCS/LCSD recovery (56.5%)
IWSE-06-006(0-0.5)	4-Nitroaniline	UJ	low ave MS/MSD recovery (54%)
IWSE-06-006(0-0.5)	Benzaldehyde	UJ	calibration drift (%D= -45); low ave LCS/LCSD recovery (20%); low ave MS/MSD recovery (52%)
IWSE-06-006(0-0.5)	Benzidine	UJ	calibration drift (%D= -86); low ave LCS/LCSD recovery (42%); low ave MS/MSD recovery (30%)
IWSE-06-006(0-0.5)	Benzoic acid	UJ	low ave MS/MSD recovery (38.5%)
IWSE-06-006(0-0.5)	Bis(2-Ethylhexyl)phthalate	U	result between SDL and SQL; laboratory blank contamination (13.8 J ug/Kg); equipment blank contamination ( 22.8 ug/L)
IWSE-06-006(0-0.5)	Fluoranthene	UJ	low ave MS/MSD recovery (55.5%)
IWSE-06-006(0-0.5)	Hexachlorocyclopentadiene	UJ	low ave MS/MSD recovery (52.5%)
IWSE-06-006(0-0.5)	Hexachloroethane	UJ	low ave LCS/LCSD recovery (59.5%); low ave MS/MSD recovery (58%)
IWSE-06-006(0-0.5)	Phenol	UJ	poor calibration fit (%RSD=20)
IWSE-06-006(0-0.5)	Pyridine	UJ	poor calibration fit (%RSD=16)
IWSE-07-007(0-0.5)	Antimony	J	result between SDL and SQL; extremely low MS/MSD recovery (28%)
IWSE-07-007(0-0.5)	Iron	J	poor field duplicate precision (64 RPD)
IWSE-07-007(0-0.5)	Lead	J	poor field duplicate precision (56 RPD)
IWSE-07-007(0-0.5)	Molybdenum	J	result between SDL and SQL
IWSE-07-007(0-0.5)	Zinc	J	poor MS/MSD precision (34 RPD)
IWSE-07-007(0-0.5)	Mercury	J	result between SDL and SQL
IWSE-07-007(0-0.5)	4,4'-DDT	UJ	low ave MS/MSD recovery (34.5%)
IWSE-07-007(0-0.5)	Endosulfan I	UJ	low ave LCS/LCSD recovery (50.5%); high ave MS/MSD recovery (305%); poor MS/MSD precision (142 RPD)
IWSE-07-007(0-0.5)	Methoxychlor	UJ	low ave MS/MSD recovery (31%)
IWSE-07-007(0-0.5)	2-Chloroethylvinyl ether	UJ	poor calibration fit (%RSD=26); low ave MS/MSD recovery (47%)
IWSE-07-007(0-0.5)	Acetone	U	result between SDL and SQL; trip blank contamination (6.86 J ug/L); equipment blank contamination (4.35 J ug/L)
IWSE-07-007(0-0.5)	Acrolein	UJ	low instrument response (low RRF); elevate SDL for NDs 5x (Sed); calibration drift (%D= -29); low ave MS/MSD recovery (27.5%)
IWSE-07-007(0-0.5)	Acrylonitrile	UJ	calibration drift (%D= -26)
IWSE-07-007(0-0.5)	Bromomethane	UJ	calibration drift (%D= -22)

**QUALIFIED DATA TABLE**

<b>Field Sample Identification</b>	<b>Analyte</b>	<b>Data Qualifier</b>	<b>Reason for Qualification</b>
IWSE-07-007(0-0.5)	Cyclohexane	J	result between SDL and SQL
IWSE-07-007(0-0.5)	Methyl Acetate	UJ	calibration drift (%D= -30)
IWSE-07-007(0-0.5)	n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (SW) or 50x (Sed)
IWSE-07-007(0-0.5)	Vinyl chloride	UJ	poor calibration fit (%RSD=19)
IWSE-07-007(0-0.5)	1,2Diphenylhydrazine/Azobenzene	J	result between SDL and SQL
IWSE-07-007(0-0.5)	2,4-Dinitrophenol	UJ	low ave LCS/LCSD recovery (45%)
IWSE-07-007(0-0.5)	3,3'-Dichlorobenzidine	J	result between SDL and SQL
IWSE-07-007(0-0.5)	3-Nitroaniline	UJ	low ave MS/MSD recovery (58%)
IWSE-07-007(0-0.5)	4,6-Dinitro-2-methylphenol	J	result between SDL and SQL
IWSE-07-007(0-0.5)	4-Chloroaniline	UJ	low ave LCS/LCSD recovery (56.5%)
IWSE-07-007(0-0.5)	4-Nitroaniline	UJ	low ave MS/MSD recovery (54%)
IWSE-07-007(0-0.5)	Acenaphthene	J	result between SDL and SQL
IWSE-07-007(0-0.5)	Anthracene	J	result between SDL and SQL
IWSE-07-007(0-0.5)	Atrazine (Aatrex)	J	result between SDL and SQL
IWSE-07-007(0-0.5)	Benzaldehyde	UJ	calibration drift (%D= -45); low ave LCS/LCSD recovery (20%); low ave MS/MSD recovery (52%)
IWSE-07-007(0-0.5)	Benzidine	UJ	calibration drift (%D= -86); low ave LCS/LCSD recovery (42%); low ave MS/MSD recovery (30%)
IWSE-07-007(0-0.5)	Benzo(b)fluoranthene	J	result between SDL and SQL
IWSE-07-007(0-0.5)	Benzo(g,h,i)perylene	J	result between SDL and SQL
IWSE-07-007(0-0.5)	Benzo(k)fluoranthene	J	result between SDL and SQL
IWSE-07-007(0-0.5)	Benzoic acid	UJ	low ave MS/MSD recovery (38.5%)
IWSE-07-007(0-0.5)	Bis(2-Ethylhexyl)phthalate	U	laboratory blank contamination (13.8 J ug/Kg); equipment blank contamination ( 22.8 ug/L)
IWSE-07-007(0-0.5)	Butyl benzyl phthalate	J	result between SDL and SQL
IWSE-07-007(0-0.5)	Carbazole	J	result between SDL and SQL
IWSE-07-007(0-0.5)	Chrysene	J	result between SDL and SQL
IWSE-07-007(0-0.5)	Dibenzofuran	J	result between SDL and SQL
IWSE-07-007(0-0.5)	Diethyl phthalate	J	result between SDL and SQL
IWSE-07-007(0-0.5)	Di-n-butyl phthalate	U	result between SDL and SQL; equipment blank contamination (2.5 J ug/L)
IWSE-07-007(0-0.5)	Di-n-octyl phthalate	J	result between SDL and SQL
IWSE-07-007(0-0.5)	Fluoranthene	J	result between SDL and SQL; low ave MS/MSD recovery (55.5%)
IWSE-07-007(0-0.5)	Fluorene	J	result between SDL and SQL
IWSE-07-007(0-0.5)	Hexachlorobenzene	J	result between SDL and SQL
IWSE-07-007(0-0.5)	Hexachlorocyclopentadiene	UJ	low ave MS/MSD recovery (52.5%)
IWSE-07-007(0-0.5)	Hexachloroethane	UJ	low ave LCS/LCSD recovery (59.5%); low ave MS/MSD recovery (58%)
IWSE-07-007(0-0.5)	Indeno(1,2,3-cd)pyrene	J	result between SDL and SQL
IWSE-07-007(0-0.5)	n-Nitrosodiphenylamine	J	result between SDL and SQL
IWSE-07-007(0-0.5)	Phenanthrene	J	result between SDL and SQL
IWSE-07-007(0-0.5)	Phenol	UJ	poor calibration fit (%RSD=20)
IWSE-07-007(0-0.5)	Pyrene	J	result between SDL and SQL
IWSE-07-007(0-0.5)	Pyridine	UJ	poor calibration fit (%RSD=16)
IWSE-08-008 (0-0.5)	Antimony	J	result between SDL and SQL; extremely low MS/MSD recovery (28%)
IWSE-08-008 (0-0.5)	Iron	J	poor field duplicate precision (64 RPD)
IWSE-08-008 (0-0.5)	Lead	J	poor field duplicate precision (56 RPD)
IWSE-08-008 (0-0.5)	Molybdenum	J	result between SDL and SQL

**QUALIFIED DATA TABLE**

<b>Field Sample Identification</b>	<b>Analyte</b>	<b>Data Qualifier</b>	<b>Reason for Qualification</b>
IWSE-08-008 (0-0.5)	Zinc	J	poor MS/MSD precision (34 RPD)
IWSE-08-008 (0-0.5)	4,4'-DDT	J	result is between SDL and SQL; calibration drift (%D= 18); low ave MS/MSD recovery (34.5%)
IWSE-08-008 (0-0.5)	Endosulfan I	UJ	low ave LCS/LCSD recovery (50.5%); high ave MS/MSD recovery (305%); poor MS/MSD precision (142 RPD)
IWSE-08-008 (0-0.5)	Methoxychlor	UJ	low ave MS/MSD recovery (31%)
IWSE-08-008 (0-0.5)	1,2-Dichloroethane	UJ	calibration drift (%D= -21)
IWSE-08-008 (0-0.5)	2-Chloroethylvinyl ether	UJ	poor calibration fit (%RSD=26); low ave MS/MSD recovery (47%)
IWSE-08-008 (0-0.5)	Acrolein	UJ	low instrument response (low RRF); elevate SDL for NDs 5x (Sed); calibration drift (%D= -36); low ave MS/MSD recovery (27.5%)
IWSE-08-008 (0-0.5)	Acrylonitrile	UJ	calibration drift (%D= -23)
IWSE-08-008 (0-0.5)	Bromomethane	UJ	calibration drift (%D= -23)
IWSE-08-008 (0-0.5)	Chloroform	J	result between SDL and SQL
IWSE-08-008 (0-0.5)	Isopropylbenzene (Cumene)	J	result between SDL and SQL
IWSE-08-008 (0-0.5)	Methyl Acetate	UJ	calibration drift (%D= -27)
IWSE-08-008 (0-0.5)	Methylene chloride	U	trip blank contamination (3.63 J ug/L); equipment blank contamination (3.21 J ug/L)
IWSE-08-008 (0-0.5)	n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (SW) or 50x (Sed)
IWSE-08-008 (0-0.5)	Vinyl chloride	UJ	poor calibration fit (%RSD=19)
IWSE-08-008 (0-0.5)	2,4-Dinitrophenol	UJ	low ave LCS/LCSD recovery (45%)
IWSE-08-008 (0-0.5)	3-Nitroaniline	UJ	low ave MS/MSD recovery (58%)
IWSE-08-008 (0-0.5)	4-Chloroaniline	UJ	low ave LCS/LCSD recovery (56.5%)
IWSE-08-008 (0-0.5)	4-Nitroaniline	UJ	low ave MS/MSD recovery (54%)
IWSE-08-008 (0-0.5)	Benzaldehyde	UJ	calibration drift (%D= -45); low ave LCS/LCSD recovery (20%); low ave MS/MSD recovery (52%)
IWSE-08-008 (0-0.5)	Benzidine	UJ	calibration drift (%D= -86); low ave LCS/LCSD recovery (42%); low ave MS/MSD recovery (30%)
IWSE-08-008 (0-0.5)	Benzo(a)anthracene	J	result between SDL and SQL
IWSE-08-008 (0-0.5)	Benzo(a)pyrene	J	result between SDL and SQL
IWSE-08-008 (0-0.5)	Benzo(b)fluoranthene	J	result between SDL and SQL
IWSE-08-008 (0-0.5)	Benzo(g,h,i)perylene	J	result between SDL and SQL
IWSE-08-008 (0-0.5)	Benzo(k)fluoranthene	J	result between SDL and SQL
IWSE-08-008 (0-0.5)	Benzoic acid	UJ	low ave MS/MSD recovery (38.5%)
IWSE-08-008 (0-0.5)	Bis(2-Ethylhexyl)phthalate	U	result between SDL and SQL; laboratory blank contamination (13.8 J ug/Kg); equipment blank contamination ( 22.8 ug/L)
IWSE-08-008 (0-0.5)	Chrysene	J	result between SDL and SQL
IWSE-08-008 (0-0.5)	Fluoranthene	J	result between SDL and SQL; low ave MS/MSD recovery (55.5%)
IWSE-08-008 (0-0.5)	Hexachlorocyclopentadiene	UJ	low ave MS/MSD recovery (52.5%)
IWSE-08-008 (0-0.5)	Hexachloroethane	UJ	low ave LCS/LCSD recovery (59.5%); low ave MS/MSD recovery (58%)
IWSE-08-008 (0-0.5)	Indeno(1,2,3-cd)pyrene	J	result between SDL and SQL
IWSE-08-008 (0-0.5)	Phenanthrene	J	result between SDL and SQL
IWSE-08-008 (0-0.5)	Phenol	UJ	poor calibration fit (%RSD=20)
IWSE-08-008 (0-0.5)	Pyrene	J	result between SDL and SQL
IWSE-08-008 (0-0.5)	Pyridine	UJ	poor calibration fit (%RSD=16)
IWSE-09-009 (0-0.5)	Antimony	J	result between SDL and SQL; extremely low MS/MSD recovery (28%)
IWSE-09-009 (0-0.5)	Iron	J	poor field duplicate precision (64 RPD)
IWSE-09-009 (0-0.5)	Lead	J	poor field duplicate precision (56 RPD)

**QUALIFIED DATA TABLE**

<b>Field Sample Identification</b>	<b>Analyte</b>	<b>Data Qualifier</b>	<b>Reason for Qualification</b>
IWSE-09-009 (0-0.5)	Molybdenum	J	result between SDL and SQL
IWSE-09-009 (0-0.5)	Zinc	J	poor MS/MSD precision (34 RPD)
IWSE-09-009 (0-0.5)	4,4'-DDT	UJ	low ave MS/MSD recovery (34.5%)
IWSE-09-009 (0-0.5)	Endosulfan I	UJ	low ave LCS/LCSD recovery (50.5%); high ave MS/MSD recovery (305%); poor MS/MSD precision (142 RPD)
IWSE-09-009 (0-0.5)	Methoxychlor	UJ	low ave MS/MSD recovery (31%)
IWSE-09-009 (0-0.5)	2-Chloroethylvinyl ether	UJ	poor calibration fit (%RSD=26); low ave MS/MSD recovery (47%)
IWSE-09-009 (0-0.5)	Acrolein	UJ	low instrument response (low RRF); elevate SDL for NDs 5x (Sed); calibration drift (%D= -29); low ave MS/MSD recovery (27.5%)
IWSE-09-009 (0-0.5)	Acrylonitrile	UJ	calibration drift (%D= -26)
IWSE-09-009 (0-0.5)	Bromomethane	UJ	calibration drift (%D= -22)
IWSE-09-009 (0-0.5)	Methyl Acetate	UJ	calibration drift (%D= -30)
IWSE-09-009 (0-0.5)	n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (SW) or 50x (Sed)
IWSE-09-009 (0-0.5)	Vinyl chloride	UJ	poor calibration fit (%RSD=19)
IWSE-09-009 (0-0.5)	2,4-Dinitrophenol	UJ	low ave LCS/LCSD recovery (45%)
IWSE-09-009 (0-0.5)	3-Nitroaniline	UJ	low ave MS/MSD recovery (58%)
IWSE-09-009 (0-0.5)	4-Chloroaniline	UJ	low ave LCS/LCSD recovery (56.5%)
IWSE-09-009 (0-0.5)	4-Nitroaniline	UJ	low ave MS/MSD recovery (54%)
IWSE-09-009 (0-0.5)	Benzaldehyde	UJ	calibration drift (%D= -45); low ave LCS/LCSD recovery (20%); low ave MS/MSD recovery (52%)
IWSE-09-009 (0-0.5)	Benzidine	UJ	calibration drift (%D= -86); low ave LCS/LCSD recovery (42%); low ave MS/MSD recovery (30%)
IWSE-09-009 (0-0.5)	Benzoic acid	UJ	low ave MS/MSD recovery (38.5%)
IWSE-09-009 (0-0.5)	Bis(2-Ethylhexyl)phthalate	U	result between SDL and SQL; laboratory blank contamination (13.8 J ug/Kg); equipment blank contamination ( 22.8 ug/L)
IWSE-09-009 (0-0.5)	Chrysene	J	result between SDL and SQL
IWSE-09-009 (0-0.5)	Fluoranthene	UJ	low ave MS/MSD recovery (55.5%)
IWSE-09-009 (0-0.5)	Hexachlorocyclopentadiene	UJ	low ave MS/MSD recovery (52.5%)
IWSE-09-009 (0-0.5)	Hexachloroethane	UJ	low ave LCS/LCSD recovery (59.5%); low ave MS/MSD recovery (58%)
IWSE-09-009 (0-0.5)	Phenol	UJ	poor calibration fit (%RSD=20)
IWSE-09-009 (0-0.5)	Pyrene	J	result between SDL and SQL
IWSE-09-009 (0-0.5)	Pyridine	UJ	poor calibration fit (%RSD=16)
IWSE-10-010 (0-0.5)	Antimony	J	result between SDL and SQL; extremely low MS/MSD recovery (28%)
IWSE-10-010 (0-0.5)	Iron	J	poor field duplicate precision (64 RPD)
IWSE-10-010 (0-0.5)	Lead	J	poor field duplicate precision (56 RPD)
IWSE-10-010 (0-0.5)	Molybdenum	J	result between SDL and SQL
IWSE-10-010 (0-0.5)	Zinc	J	poor MS/MSD precision (34 RPD)
IWSE-10-010 (0-0.5)	Mercury	J	result between SDL and SQL
IWSE-10-010 (0-0.5)	4,4'-DDT	UJ	low ave MS/MSD recovery (34.5%)
IWSE-10-010 (0-0.5)	Endosulfan I	UJ	low ave LCS/LCSD recovery (50.5%); high ave MS/MSD recovery (305%); poor MS/MSD precision (142 RPD)
IWSE-10-010 (0-0.5)	Methoxychlor	UJ	low ave MS/MSD recovery (31%)
IWSE-10-010 (0-0.5)	2-Chloroethylvinyl ether	UJ	poor calibration fit (%RSD=26); low ave MS/MSD recovery (47%)
IWSE-10-010 (0-0.5)	Acetone	U	result between SDL and SQL; trip blank contamination (6.86 J ug/L); equipment blank contamination (4.35 J ug/L)
IWSE-10-010 (0-0.5)	Acrolein	UJ	low instrument response (low RRF); elevate SDL for NDs 5x (Sed); calibration drift (%D= -29); low ave MS/MSD recovery (27.5%)

**QUALIFIED DATA TABLE**

<b>Field Sample Identification</b>	<b>Analyte</b>	<b>Data Qualifier</b>	<b>Reason for Qualification</b>
IWSE-10-010 (0-0.5)	Acrylonitrile	UJ	calibration drift (%D= -26)
IWSE-10-010 (0-0.5)	Bromomethane	UJ	calibration drift (%D= -22)
IWSE-10-010 (0-0.5)	Methyl Acetate	UJ	calibration drift (%D= -30)
IWSE-10-010 (0-0.5)	n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (SW) or 50x (Sed)
IWSE-10-010 (0-0.5)	Vinyl chloride	UJ	poor calibration fit (%RSD=19)
IWSE-10-010 (0-0.5)	2,4-Dinitrophenol	UJ	low ave LCS/LCSD recovery (45%)
IWSE-10-010 (0-0.5)	3-Nitroaniline	UJ	low ave MS/MSD recovery (58%)
IWSE-10-010 (0-0.5)	4-Chloroaniline	UJ	low ave LCS/LCSD recovery (56.5%)
IWSE-10-010 (0-0.5)	4-Nitroaniline	UJ	low ave MS/MSD recovery (54%)
IWSE-10-010 (0-0.5)	Benzaldehyde	UJ	calibration drift (%D= -45); low ave LCS/LCSD recovery (20%); low ave MS/MSD recovery (52%)
IWSE-10-010 (0-0.5)	Benzidine	UJ	calibration drift (%D= -86); low ave LCS/LCSD recovery (42%); low ave MS/MSD recovery (30%)
IWSE-10-010 (0-0.5)	Benzoic acid	UJ	low ave MS/MSD recovery (38.5%)
IWSE-10-010 (0-0.5)	Bis(2-Ethylhexyl)phthalate	U	result between SDL and SQL; laboratory blank contamination (13.8 J ug/Kg); equipment blank contamination ( 22.8 ug/L)
IWSE-10-010 (0-0.5)	Fluoranthene	UJ	low ave MS/MSD recovery (55.5%)
IWSE-10-010 (0-0.5)	Hexachlorocyclopentadiene	UJ	low ave MS/MSD recovery (52.5%)
IWSE-10-010 (0-0.5)	Hexachloroethane	UJ	low ave LCS/LCSD recovery (59.5%); low ave MS/MSD recovery (58%)
IWSE-10-010 (0-0.5)	Phenol	UJ	poor calibration fit (%RSD=20)
IWSE-10-010 (0-0.5)	Pyridine	UJ	poor calibration fit (%RSD=16)
IWSE-11-011 (0-0.5)	Antimony	J	result between SDL and SQL; extremely low MS/MSD recovery (28%)
IWSE-11-011 (0-0.5)	Iron	J	poor field duplicate precision (64 RPD)
IWSE-11-011 (0-0.5)	Lead	J	poor field duplicate precision (56 RPD)
IWSE-11-011 (0-0.5)	Zinc	J	poor MS/MSD precision (34 RPD)
IWSE-11-011 (0-0.5)	4,4'-DDT	UJ	low ave MS/MSD recovery (34.5%)
IWSE-11-011 (0-0.5)	Endosulfan I	UJ	low ave LCS/LCSD recovery (50.5%); high ave MS/MSD recovery (305%); poor MS/MSD precision (142 RPD)
IWSE-11-011 (0-0.5)	gamma-Chlordane	J	result is between SDL and SQL; high ave MS/MSD recovery (400.5%); poor MS/MSD precision (130 RPD); high RPD (195%) between columns; lower value reported due to interference
IWSE-11-011 (0-0.5)	Methoxychlor	UJ	low ave MS/MSD recovery (31%)
IWSE-11-011 (0-0.5)	2-Chloroethylvinyl ether	UJ	poor calibration fit (%RSD=26); low ave MS/MSD recovery (47%)
IWSE-11-011 (0-0.5)	Acrolein	UJ	low instrument response (low RRF); elevate SDL for NDs 5x (Sed); low ave MS/MSD recovery (27.5%)
IWSE-11-011 (0-0.5)	n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (SW) or 50x (Sed)
IWSE-11-011 (0-0.5)	Vinyl chloride	UJ	poor calibration fit (%RSD=18)
IWSE-11-011 (0-0.5)	2,4-Dinitrophenol	UJ	low ave LCS/LCSD recovery (45%)
IWSE-11-011 (0-0.5)	3-Nitroaniline	UJ	low ave MS/MSD recovery (58%)
IWSE-11-011 (0-0.5)	4-Chloroaniline	UJ	low ave LCS/LCSD recovery (56.5%)
IWSE-11-011 (0-0.5)	4-Nitroaniline	UJ	low ave MS/MSD recovery (54%)
IWSE-11-011 (0-0.5)	Benzaldehyde	UJ	calibration drift (%D= -45); low ave LCS/LCSD recovery (20%); low ave MS/MSD recovery (52%)
IWSE-11-011 (0-0.5)	Benzidine	UJ	calibration drift (%D= -86); low ave LCS/LCSD recovery (42%); low ave MS/MSD recovery (30%)
IWSE-11-011 (0-0.5)	Benzo(g,h,i)perylene	J	result between SDL and SQL
IWSE-11-011 (0-0.5)	Benzoic acid	UJ	low ave MS/MSD recovery (38.5%)
IWSE-11-011 (0-0.5)	Bis(2-Ethylhexyl)phthalate	U	result between SDL and SQL; laboratory blank contamination (13.8 J ug/Kg); equipment blank contamination ( 22.8 ug/L)

**QUALIFIED DATA TABLE**

<b>Field Sample Identification</b>	<b>Analyte</b>	<b>Data Qualifier</b>	<b>Reason for Qualification</b>
IWSE-11-011 (0-0.5)	Chrysene	J	result between SDL and SQL
IWSE-11-011 (0-0.5)	Dibenz(a,h)anthracene	J	result between SDL and SQL
IWSE-11-011 (0-0.5)	Fluoranthene	UJ	low ave MS/MSD recovery (55.5%)
IWSE-11-011 (0-0.5)	Hexachlorocyclopentadiene	UJ	low ave MS/MSD recovery (52.5%)
IWSE-11-011 (0-0.5)	Hexachloroethane	UJ	low ave LCS/LCSD recovery (59.5%); low ave MS/MSD recovery (58%)
IWSE-11-011 (0-0.5)	Phenol	UJ	poor calibration fit (%RSD=20)
IWSE-11-011 (0-0.5)	Pyrene	J	result between SDL and SQL
IWSE-11-011 (0-0.5)	Pyridine	UJ	poor calibration fit (%RSD=16)
IWSE-12-012 (0-0.5)	Antimony	J-	extremely low MS/MSD recovery (28%)
IWSE-12-012 (0-0.5)	Iron	J	poor field duplicate precision (64 RPD)
IWSE-12-012 (0-0.5)	Lead	J	poor field duplicate precision (56 RPD)
IWSE-12-012 (0-0.5)	Molybdenum	J	result between SDL and SQL
IWSE-12-012 (0-0.5)	Zinc	J	poor MS/MSD precision (34 RPD)
IWSE-12-012 (0-0.5)	4,4'-DDT	UJ	low ave MS/MSD recovery (34.5%)
IWSE-12-012 (0-0.5)	Endosulfan I	UJ	low ave LCS/LCSD recovery (50.5%); high ave MS/MSD recovery (305%); poor MS/MSD precision (142 RPD)
IWSE-12-012 (0-0.5)	Methoxychlor	UJ	low ave MS/MSD recovery (31%)
IWSE-12-012 (0-0.5)	1,2-Dichloroethane	J	result between SDL and SQL; calibration drift (%D= -21)
IWSE-12-012 (0-0.5)	2-Chloroethylvinyl ether	UJ	poor calibration fit (%RSD=26); low ave MS/MSD recovery (47%)
IWSE-12-012 (0-0.5)	Acrolein	UJ	low instrument response (low RRF); elevate SDL for NDs 5x (Sed); calibration drift (%D= -36); low ave MS/MSD recovery (27.5%)
IWSE-12-012 (0-0.5)	Acrylonitrile	UJ	calibration drift (%D= -23)
IWSE-12-012 (0-0.5)	Bromomethane	UJ	calibration drift (%D= -23)
IWSE-12-012 (0-0.5)	Chloroform	J	result between SDL and SQL
IWSE-12-012 (0-0.5)	Isopropylbenzene (Cumene)	J	result between SDL and SQL
IWSE-12-012 (0-0.5)	Methyl Acetate	UJ	calibration drift (%D= -27)
IWSE-12-012 (0-0.5)	Methylcyclohexane	J	result between SDL and SQL; calibration drift (%D= 25)
IWSE-12-012 (0-0.5)	Methylene chloride	U	trip blank contamination (3.63 J ug/L); equipment blank contamination (3.21 J ug/L)
IWSE-12-012 (0-0.5)	n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (SW) or 50x (Sed)
IWSE-12-012 (0-0.5)	Toluene	J	result between SDL and SQL
IWSE-12-012 (0-0.5)	Vinyl chloride	UJ	poor calibration fit (%RSD=19)
IWSE-12-012 (0-0.5)	2,4-Dinitrophenol	UJ	low ave LCS/LCSD recovery (45%)
IWSE-12-012 (0-0.5)	3-Nitroaniline	UJ	low ave MS/MSD recovery (58%)
IWSE-12-012 (0-0.5)	4-Chloroaniline	UJ	low ave LCS/LCSD recovery (56.5%)
IWSE-12-012 (0-0.5)	4-Nitroaniline	UJ	low ave MS/MSD recovery (54%)
IWSE-12-012 (0-0.5)	Anthracene	J	result between SDL and SQL
IWSE-12-012 (0-0.5)	Benzaldehyde	UJ	calibration drift (%D= -45); low ave LCS/LCSD recovery (20%); low ave MS/MSD recovery (52%)
IWSE-12-012 (0-0.5)	Benzidine	UJ	calibration drift (%D= -86); low ave LCS/LCSD recovery (42%); low ave MS/MSD recovery (30%)
IWSE-12-012 (0-0.5)	Benzo(b)fluoranthene	J	result between SDL and SQL
IWSE-12-012 (0-0.5)	Benzoic acid	UJ	low ave MS/MSD recovery (38.5%)
IWSE-12-012 (0-0.5)	Bis(2-Ethylhexyl)phthalate	U	result between SDL and SQL; laboratory blank contamination (13.8 J ug/Kg); equipment blank contamination ( 22.8 ug/L)
IWSE-12-012 (0-0.5)	Chrysene	J	result between SDL and SQL
IWSE-12-012 (0-0.5)	Fluoranthene	J	result between SDL and SQL; low ave MS/MSD recovery (55.5%)

## QUALIFIED DATA TABLE

<b>Field Sample Identification</b>	<b>Analyte</b>	<b>Data Qualifier</b>	<b>Reason for Qualification</b>
IWSE-12-012 (0-0.5)	Hexachlorocyclopentadiene	UJ	low ave MS/MSD recovery (52.5%)
IWSE-12-012 (0-0.5)	Hexachloroethane	UJ	low ave LCS/LCSD recovery (59.5%); low ave MS/MSD recovery (58%)
IWSE-12-012 (0-0.5)	Phenanthrene	J	result between SDL and SQL
IWSE-12-012 (0-0.5)	Phenol	UJ	poor calibration fit (%RSD=20)
IWSE-12-012 (0-0.5)	Pyrene	J	result between SDL and SQL
IWSE-12-012 (0-0.5)	Pyridine	UJ	poor calibration fit (%RSD=16)
IWSE-13-013 (0-0.5)	Antimony	J	result between SDL and SQL; extremely low MS/MSD recovery (28%)
IWSE-13-013 (0-0.5)	Iron	J	poor field duplicate precision (64 RPD)
IWSE-13-013 (0-0.5)	Lead	J	poor field duplicate precision (56 RPD)
IWSE-13-013 (0-0.5)	Molybdenum	J	result between SDL and SQL
IWSE-13-013 (0-0.5)	Zinc	J	poor MS/MSD precision (34 RPD)
IWSE-13-013 (0-0.5)	Mercury	J	result between SDL and SQL
IWSE-13-013 (0-0.5)	4,4'-DDT	UJ	low ave MS/MSD recovery (34.5%)
IWSE-13-013 (0-0.5)	Endosulfan I	UJ	low ave LCS/LCSD recovery (50.5%); high ave MS/MSD recovery (305%); poor MS/MSD precision (142 RPD)
IWSE-13-013 (0-0.5)	gamma-Chlordane	J	result is between SDL and SQL; high ave MS/MSD recovery (400.5%); poor MS/MSD precision (130 RPD); high RPD (195%) between columns; lower value reported due to interference
IWSE-13-013 (0-0.5)	Methoxychlor	UJ	low ave MS/MSD recovery (31%)
IWSE-13-013 (0-0.5)	2-Chloroethylvinyl ether	UJ	poor calibration fit (%RSD=26); low ave MS/MSD recovery (47%)
IWSE-13-013 (0-0.5)	Acrolein	UJ	low instrument response (low RRF); elevate SDL for NDs 5x (Sed); low ave MS/MSD recovery (27.5%)
IWSE-13-013 (0-0.5)	n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (SW) or 50x (Sed)
IWSE-13-013 (0-0.5)	Vinyl chloride	UJ	poor calibration fit (%RSD=18)
IWSE-13-013 (0-0.5)	2,4-Dinitrophenol	UJ	low ave LCS/LCSD recovery (45%)
IWSE-13-013 (0-0.5)	3-Nitroaniline	UJ	low ave MS/MSD recovery (58%)
IWSE-13-013 (0-0.5)	4-Chloroaniline	UJ	low ave LCS/LCSD recovery (56.5%)
IWSE-13-013 (0-0.5)	4-Nitroaniline	UJ	low ave MS/MSD recovery (54%)
IWSE-13-013 (0-0.5)	Benzaldehyde	UJ	calibration drift (%D= -45); low ave LCS/LCSD recovery (20%); low ave MS/MSD recovery (52%)
IWSE-13-013 (0-0.5)	Benzidine	UJ	calibration drift (%D= -86); low ave LCS/LCSD recovery (42%); low ave MS/MSD recovery (30%)
IWSE-13-013 (0-0.5)	Benzoic acid	UJ	low ave MS/MSD recovery (38.5%)
IWSE-13-013 (0-0.5)	Bis(2-Ethylhexyl)phthalate	U	result between SDL and SQL; laboratory blank contamination (13.8 J ug/Kg); equipment blank contamination ( 22.8 ug/L)
IWSE-13-013 (0-0.5)	Fluoranthene	UJ	low ave MS/MSD recovery (55.5%)
IWSE-13-013 (0-0.5)	Hexachlorocyclopentadiene	UJ	low ave MS/MSD recovery (52.5%)
IWSE-13-013 (0-0.5)	Hexachloroethane	UJ	low ave LCS/LCSD recovery (59.5%); low ave MS/MSD recovery (58%)
IWSE-13-013 (0-0.5)	Phenol	UJ	poor calibration fit (%RSD=20)
IWSE-13-013 (0-0.5)	Pyridine	UJ	poor calibration fit (%RSD=16)
IWSE-14-014 (0-0.5)	Antimony	J	result between SDL and SQL; extremely low MS/MSD recovery (28%)
IWSE-14-014 (0-0.5)	Iron	J	poor field duplicate precision (64 RPD)
IWSE-14-014 (0-0.5)	Lead	J	poor field duplicate precision (56 RPD)
IWSE-14-014 (0-0.5)	Molybdenum	J	result between SDL and SQL
IWSE-14-014 (0-0.5)	Zinc	J	poor MS/MSD precision (34 RPD)
IWSE-14-014 (0-0.5)	Mercury	J	result between SDL and SQL
IWSE-14-014 (0-0.5)	4,4'-DDT	UJ	low ave MS/MSD recovery (34.5%)

## QUALIFIED DATA TABLE

<b>Field Sample Identification</b>	<b>Analyte</b>	<b>Data Qualifier</b>	<b>Reason for Qualification</b>
IWSE-14-014 (0-0.5)	Endosulfan I	UJ	low ave LCS/LCSD recovery (50.5%); high ave MS/MSD recovery (305%); poor MS/MSD precision (142 RPD)
IWSE-14-014 (0-0.5)	gamma-Chlordane	J	result is between SDL and SQL; high ave MS/MSD recovery (400.5%); poor MS/MSD precision (130 RPD); high RPD (192%) between columns; lower value reported due to interference
IWSE-14-014 (0-0.5)	Methoxychlor	UJ	low ave MS/MSD recovery (31%)
IWSE-14-014 (0-0.5)	2-Chloroethylvinyl ether	UJ	poor calibration fit (%RSD=26); low ave MS/MSD recovery (47%)
IWSE-14-014 (0-0.5)	Acrolein	UJ	low instrument response (low RRF); elevate SDL for NDs 5x (Sed); low ave MS/MSD recovery (27.5%)
IWSE-14-014 (0-0.5)	n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (SW) or 50x (Sed)
IWSE-14-014 (0-0.5)	Vinyl chloride	UJ	poor calibration fit (%RSD=18)
IWSE-14-014 (0-0.5)	2,4-Dinitrophenol	UJ	low ave LCS/LCSD recovery (45%)
IWSE-14-014 (0-0.5)	3-Nitroaniline	UJ	low ave MS/MSD recovery (58%)
IWSE-14-014 (0-0.5)	4-Chloroaniline	UJ	low ave LCS/LCSD recovery (56.5%)
IWSE-14-014 (0-0.5)	4-Nitroaniline	UJ	low ave MS/MSD recovery (54%)
IWSE-14-014 (0-0.5)	Benzaldehyde	UJ	calibration drift (%D= -45); low ave LCS/LCSD recovery (20%); low ave MS/MSD recovery (52%)
IWSE-14-014 (0-0.5)	Benzidine	UJ	calibration drift (%D= -86); low ave LCS/LCSD recovery (42%); low ave MS/MSD recovery (30%)
IWSE-14-014 (0-0.5)	Benzoic acid	UJ	low ave MS/MSD recovery (38.5%)
IWSE-14-014 (0-0.5)	Bis(2-Ethylhexyl)phthalate	U	result between SDL and SQL; laboratory blank contamination (13.8 J ug/Kg); equipment blank contamination ( 22.8 ug/L)
IWSE-14-014 (0-0.5)	Fluoranthene	UJ	low ave MS/MSD recovery (55.5%)
IWSE-14-014 (0-0.5)	Hexachlorocyclopentadiene	UJ	low ave MS/MSD recovery (52.5%)
IWSE-14-014 (0-0.5)	Hexachloroethane	UJ	low ave LCS/LCSD recovery (59.5%); low ave MS/MSD recovery (58%)
IWSE-14-014 (0-0.5)	Phenol	UJ	poor calibration fit (%RSD=20)
IWSE-14-014 (0-0.5)	Pyridine	UJ	poor calibration fit (%RSD=16)
IWSE-15-015 (0-0.5)	Antimony	J	result between SDL and SQL; extremely low MS/MSD recovery (28%)
IWSE-15-015 (0-0.5)	Iron	J	poor field duplicate precision (64 RPD)
IWSE-15-015 (0-0.5)	Lead	J	poor field duplicate precision (56 RPD)
IWSE-15-015 (0-0.5)	Molybdenum	J	result between SDL and SQL
IWSE-15-015 (0-0.5)	Zinc	J	poor MS/MSD precision (34 RPD)
IWSE-15-015 (0-0.5)	Mercury	J	result between SDL and SQL
IWSE-15-015 (0-0.5)	4,4'-DDT	UJ	low ave MS/MSD recovery (34.5%)
IWSE-15-015 (0-0.5)	Endosulfan I	UJ	low ave LCS/LCSD recovery (50.5%); high ave MS/MSD recovery (305%); poor MS/MSD precision (142 RPD)
IWSE-15-015 (0-0.5)	gamma-Chlordane	J	result is between SDL and SQL; high ave MS/MSD recovery (400.5%); poor MS/MSD precision (130 RPD); high RPD (195%) between columns; lower value reported due to interference
IWSE-15-015 (0-0.5)	Methoxychlor	UJ	low ave MS/MSD recovery (31%)
IWSE-15-015 (0-0.5)	2-Chloroethylvinyl ether	UJ	poor calibration fit (%RSD=26); low ave MS/MSD recovery (47%)
IWSE-15-015 (0-0.5)	Acetone	U	result between SDL and SQL; trip blank contamination (6.86 J ug/L); equipment blank contamination (4.35 J ug/L)
IWSE-15-015 (0-0.5)	Acrolein	UJ	low instrument response (low RRF); elevate SDL for NDs 5x (Sed); low ave MS/MSD recovery (27.5%)
IWSE-15-015 (0-0.5)	n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (SW) or 50x (Sed)
IWSE-15-015 (0-0.5)	Vinyl chloride	UJ	poor calibration fit (%RSD=18)
IWSE-15-015 (0-0.5)	2,4-Dinitrophenol	UJ	low ave LCS/LCSD recovery (45%)
IWSE-15-015 (0-0.5)	3-Nitroaniline	UJ	low ave MS/MSD recovery (58%)

**QUALIFIED DATA TABLE**

<b>Field Sample Identification</b>	<b>Analyte</b>	<b>Data Qualifier</b>	<b>Reason for Qualification</b>
IWSE-15-015 (0-0.5)	4-Chloroaniline	UJ	low ave LCS/LCSD recovery (56.5%)
IWSE-15-015 (0-0.5)	4-Nitroaniline	UJ	low ave MS/MSD recovery (54%)
IWSE-15-015 (0-0.5)	Benzaldehyde	UJ	calibration drift (%D= -45); low ave LCS/LCSD recovery (20%); low ave MS/MSD recovery (52%)
IWSE-15-015 (0-0.5)	Benzidine	UJ	calibration drift (%D= -86); low ave LCS/LCSD recovery (42%); low ave MS/MSD recovery (30%)
IWSE-15-015 (0-0.5)	Benzoic acid	UJ	low ave MS/MSD recovery (38.5%)
IWSE-15-015 (0-0.5)	Bis(2-Ethylhexyl)phthalate	U	result between SDL and SQL; laboratory blank contamination (13.8 µg/Kg); equipment blank contamination ( 22.8 µg/L)
IWSE-15-015 (0-0.5)	Fluoranthene	UJ	low ave MS/MSD recovery (55.5%)
IWSE-15-015 (0-0.5)	Hexachlorocyclopentadiene	UJ	low ave MS/MSD recovery (52.5%)
IWSE-15-015 (0-0.5)	Hexachloroethane	UJ	low ave LCS/LCSD recovery (59.5%); low ave MS/MSD recovery (58%)
IWSE-15-015 (0-0.5)	Phenol	UJ	poor calibration fit (%RSD=20)
IWSE-15-015 (0-0.5)	Pyridine	UJ	poor calibration fit (%RSD=16)
IWSE-16-016 (0-0.5)	Antimony	J	result between SDL and SQL; extremely low MS/MSD recovery (28%)
IWSE-16-016 (0-0.5)	Beryllium	J	result between SDL and SQL
IWSE-16-016 (0-0.5)	Iron	J	poor field duplicate precision (64 RPD)
IWSE-16-016 (0-0.5)	Lead	J	poor field duplicate precision (56 RPD)
IWSE-16-016 (0-0.5)	Molybdenum	J	result between SDL and SQL
IWSE-16-016 (0-0.5)	Zinc	J	poor MS/MSD precision (34 RPD)
IWSE-16-016 (0-0.5)	Mercury	J	result between SDL and SQL
IWSE-16-016 (0-0.5)	4,4'-DDT	UJ	low ave MS/MSD recovery (34.5%)
IWSE-16-016 (0-0.5)	Endosulfan I	UJ	low ave LCS/LCSD recovery (50.5%); high ave MS/MSD recovery (305%); poor MS/MSD precision (142 RPD)
IWSE-16-016 (0-0.5)	Methoxychlor	UJ	low ave MS/MSD recovery (31%)
IWSE-16-016 (0-0.5)	2-Chloroethylvinyl ether	UJ	poor calibration fit (%RSD=26); low ave MS/MSD recovery (47%)
IWSE-16-016 (0-0.5)	Acrolein	UJ	low instrument response (low RRF); elevate SDL for NDs 5x (Sed); low ave MS/MSD recovery (27.5%)
IWSE-16-016 (0-0.5)	n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (SW) or 50x (Sed)
IWSE-16-016 (0-0.5)	Vinyl chloride	UJ	poor calibration fit (%RSD=18)
IWSE-16-016 (0-0.5)	2,4-Dinitrophenol	UJ	low ave LCS/LCSD recovery (45%)
IWSE-16-016 (0-0.5)	3-Nitroaniline	UJ	low ave MS/MSD recovery (58%)
IWSE-16-016 (0-0.5)	4-Chloroaniline	UJ	low ave LCS/LCSD recovery (56.5%)
IWSE-16-016 (0-0.5)	4-Nitroaniline	UJ	low ave MS/MSD recovery (54%)
IWSE-16-016 (0-0.5)	Benzaldehyde	UJ	calibration drift (%D= -45); low ave LCS/LCSD recovery (20%); low ave MS/MSD recovery (52%)
IWSE-16-016 (0-0.5)	Benzidine	UJ	calibration drift (%D= -86); low ave LCS/LCSD recovery (42%); low ave MS/MSD recovery (30%)
IWSE-16-016 (0-0.5)	Benzo(b)fluoranthene	J	result between SDL and SQL
IWSE-16-016 (0-0.5)	Benzoic acid	UJ	low ave MS/MSD recovery (38.5%)
IWSE-16-016 (0-0.5)	Bis(2-Ethylhexyl)phthalate	U	result between SDL and SQL; laboratory blank contamination (13.8 µg/Kg); equipment blank contamination ( 22.8 µg/L)
IWSE-16-016 (0-0.5)	Fluoranthene	UJ	low ave MS/MSD recovery (55.5%)
IWSE-16-016 (0-0.5)	Hexachlorocyclopentadiene	UJ	low ave MS/MSD recovery (52.5%)
IWSE-16-016 (0-0.5)	Hexachloroethane	UJ	low ave LCS/LCSD recovery (59.5%); low ave MS/MSD recovery (58%)
IWSE-16-016 (0-0.5)	Phenol	UJ	poor calibration fit (%RSD=20)
IWSE-16-016 (0-0.5)	Pyridine	UJ	poor calibration fit (%RSD=16)

ATTACHMENT 1

Sample_ID	Lab_Sample_ID	Test_type_code	Analytical_Method	Matrix	Parameter	Valid_qualifier	Result_type_code	Prep_date	Prep_time	Analysis_Date	Analysis_Time	QC_comment	QC_Batch
MB for HBN 326879 [DIGM/12085]	385770	LB	SW6010B	S	Aluminum	U to RRs <= 5 x BlankEquivConc (none)	TRG	7/3/2006	9:55	7/7/2006	23:21	laboratory blank contamination (B 3.91 mg/kg)	327372
IWSE-03-003(0-0.5) MSD	20606293806	MSD	SW6010B	S	Aluminum	none (waived due to high parent conc)	TRG	7/3/2006	9:55	7/7/2006	23:59	high ave MS/MSD recovery (885%)	327372
IW-036-EB	20606293811	EQBK	SW6010B	W	Aluminum	U to RRs <= 5 x BlankEquivConc (none)	TRG	7/1/2006	14:40	7/4/2006	0:46	equipment blank contamination (B 0.054 mg/L)	327155
IWSE-03-003(0-0.5) MSD	20606293806	MSD	SW6010B	S	Antimony	J- / R to RRs/ NDs	TRG	7/3/2006	9:55	7/7/2006	23:59	extremely low MS/MSD recovery (28%)	327372
MB for HBN 326879 [DIGM/12085]	385770	LB	SW6010B	S	Barium	U to RRs <= 5 x BlankEquivConc (none)	TRG	7/3/2006	9:55	7/7/2006	23:21	laboratory blank contamination (B 0.05 mg/kg)	327372
IW-036-EB	20606293811	EQBK	SW6010B	W	Barium	U to RRs <= 5 x BlankEquivConc (none)	TRG	7/1/2006	14:40	7/4/2006	0:46	equipment blank contamination (B 0.00055 mg/L)	327155
MB for HBN 326879 [DIGM/12085]	385770	LB	SW6010B	S	Cadmium	U to RRs <= 5 x BlankEquivConc (none)	TRG	7/3/2006	9:55	7/7/2006	23:21	laboratory blank contamination (B 0.069 mg/kg)	327372
MB for HBN 326879 [DIGM/12085]	385770	LB	SW6010B	S	Cobalt	U to RRs <= 5 x BlankEquivConc (none)	TRG	7/3/2006	9:55	7/7/2006	23:21	laboratory blank contamination (B 0.03 mg/kg)	327372
MB for HBN 326879 [DIGM/12085]	385770	LB	SW6010B	S	Copper	U to RRs <= 5 x BlankEquivConc (none)	TRG	7/3/2006	9:55	7/7/2006	23:21	laboratory blank contamination (B 0.2 mg/kg)	327372
IW-036-EB	20606293811	EQBK	SW6010B	W	Copper	U to RRs <= 5 x BlankEquivConc (none)	TRG	7/1/2006	14:40	7/4/2006	0:46	equipment blank contamination (B 0.0056 mg/L)	327155
IW-036-EB	20606293811	EQBK	SW6010B	W	Hardness	U to RRs <= 5 x BlankEquivConc (none)	TRG	7/1/2006	14:40	7/4/2006	0:46	equipment blank contamination (15.4 mg/L)	327155
MB for HBN 326879 [DIGM/12085]	385770	LB	SW6010B	S	Iron	U to RRs <= 5 x BlankEquivConc (none)	TRG	7/3/2006	9:55	7/7/2006	23:21	laboratory blank contamination (4.64 mg/kg)	327372
IWSE-03-003-(0-0.5)	20606293803	SMP	SW6010B	S	Iron	J to RRs	TRG	7/3/2006	9:55	7/7/2006	23:35	poor field duplicate precision (64 RPD)	327372
IWSE-03-003(0-0.5) MSD	20606293806	MSD	SW6010B	S	Iron	none (waived due to high parent conc)	TRG	7/3/2006	9:55	7/7/2006	23:59	extremely low MS/MSD recovery (-2000%)	327372
IW-036-EB	20606293811	EQBK	SW6010B	W	Iron	U to RRs <= 5 x BlankEquivConc (none)	TRG	7/1/2006	14:40	7/4/2006	0:46	equipment blank contamination (B 0.029 mg/L)	327155
x	CCB6-070706-2228to0056	CCB	SW6010B		Iron	U to RRs <= 5 x BlankEquivConc (none)	ICP			7/7/06	22:28-00:56	calibration blank contamination (0.13 mg/L)	
IWSE-03-003-(0-0.5)	20606293803	SMP	SW6010B	S	Lead	J to RRs	TRG	7/3/2006	9:55	7/7/2006	23:35	poor field duplicate precision (56 RPD)	327372
MB for HBN 326879 [DIGM/12085]	385770	LB	SW6010B	S	Manganese	U to RRs <= 5 x BlankEquivConc (none)	TRG	7/3/2006	9:55	7/7/2006	23:21	laboratory blank contamination (B 0.41 mg/kg)	327372
IWSE-03-003(0-0.5) MSD	20606293806	MSD	SW6010B	S	Manganese	none (waived due to high parent conc)	TRG	7/3/2006	9:55	7/7/2006	23:59	extremely low MS/MSD recovery (-40%)	327372
MB for HBN 326879 [DIGM/12085]	385770	LB	SW6010B	S	Strontium	U to RRs <= 5 x BlankEquivConc (none)	TRG	7/3/2006	9:55	7/7/2006	23:21	laboratory blank contamination (B 0.031 mg/kg)	327372
IW-036-EB	20606293811	EQBK	SW6010B	W	Strontium	U to RRs <= 5 x BlankEquivConc (none)	TRG	7/1/2006	14:40	7/4/2006	0:46	equipment blank contamination (B 0.018 mg/L)	327155
IW-036-EB	20606293811	EQBK	SW6010B	W	Thallium	U to RRs <= 5 x BlankEquivConc	TRG	7/1/2006	14:40	7/4/2006	0:46	equipment blank contamination (B 0.0055 mg/L)	327155
MB for HBN 326879 [DIGM/12085]	385770	LB	SW6010B	S	Titanium	U to RRs <= 5 x BlankEquivConc (none)	TRG	7/3/2006	9:55	7/7/2006	23:21	laboratory blank contamination (B 0.021 mg/kg)	327372
IW-036-EB	20606293811	EQBK	SW6010B	W	Titanium	U to RRs <= 5 x BlankEquivConc (none)	TRG	7/1/2006	14:40	7/4/2006	0:46	equipment blank contamination (B 0.00061 mg/L)	327155
MB for HBN 326879 [DIGM/12085]	385770	LB	SW6010B	S	Vanadium	U to RRs <= 5 x BlankEquivConc (none)	TRG	7/3/2006	9:55	7/7/2006	23:21	laboratory blank contamination (B 0.094 mg/kg)	327372
IW-036-EB	20606293811	EQBK	SW6010B	W	Vanadium	U to RRs <= 5 x BlankEquivConc (none)	TRG	7/1/2006	14:40	7/4/2006	0:46	equipment blank contamination (B 0.0011 mg/L)	327155
MB for HBN 326879 [DIGM/12085]	385770	LB	SW6010B	S	Zinc	U to RRs <= 5 x BlankEquivConc (none)	TRG	7/3/2006	9:55	7/7/2006	23:21	laboratory blank contamination (B 0.76 mg/kg)	327372

ATTACHMENT 1

Sample_ID	Lab_Sample_ID	Test_type_code	Analytical_Method	Matrix	Parameter	Valid_qualifier	Result_type_code	Prep_date	Prep_time	Analysis_Date	Analysis_Time	QC_comment	QC_Batch
IWSE-03-003(0-0.5) MSD	20606293806	MSD	SW6010B	S	Zinc	J to RRs	TRG	7/3/2006	9:55	7/7/2006	23:59	poor MS/MSD precision (34 RPD)	327372
IW-036-EB	20606293811	EQBK	SW6010B	W	Zinc	U to RRs <= 5 x BlankEquivConc (none)	TRG	7/1/2006	14:40	7/4/2006	0:46	equipment blank contamination (B 0.011 mg/L)	327155
IWSE-03-003(0-0.5) MSD	20606293806	MSD	SW8081A	S	4,4'-DDE	J+ to RRs	TRG	6/30/2006	12:00	7/5/2006	9:50	high ave MS/MSD recovery (352.5%)	327213
IWSE-03-003(0-0.5) MSD	20606293806	MSD	SW8081A	S	4,4'-DDE	J to RRs	TRG	6/30/2006	12:00	7/5/2006	9:50	poor MS/MSD precision (130 RPD)	327213
IWSE-03-003(0-0.5) MSD	20606293806	MSD	SW8081A	S	4,4'-DDT	J- / UJ to RRs/NDs	TRG	6/30/2006	12:00	7/5/2006	9:50	low ave MS/MSD recovery (34.5%)	327213
x	2060703sv16a076	CCV1	SW8081A		4,4'-DDT	J+ to RRs (none)	Pest			7/5/06	15:15	calibration drift (%D= 16)	
x	2060703sv17a061	CCV1	SW8081A		4,4'-DDT	J+ to RRs	Pest			7/4/06	15:53	calibration drift (%D= 18)	
x	2060707sv17a012	CCV1	SW8081A		4,4'-DDT	J+ to RRs	Pest			7/7/06	17:09	calibration drift (%D= 19)	
x	2060707sv17a016	CCV1	SW8081A		4,4'-DDT	J+ to RRs	Pest			7/8/06	10:08	calibration drift (%D= 20)	
x	2060707sv17a022	CCV1	SW8081A		4,4'-DDT	J+ to RRs	Pest			7/8/06	12:41	calibration drift (%D= 23)	
IWSE-03-003(0-0.5) MSD	20606293806	MSD	SW8081A	S	alpha-Chlordane	J+ to RRs	TRG	6/30/2006	12:00	7/5/2006	9:50	high ave MS/MSD recovery (336%)	327213
IWSE-03-003(0-0.5) MSD	20606293806	MSD	SW8081A	S	alpha-Chlordane	J to RRs	TRG	6/30/2006	12:00	7/5/2006	9:50	poor MS/MSD precision (122 RPD)	327213
IW-036-EB	20606293811	EQBK	SW8081A	W	delta-BHC	U to RRs <= 5 x BlankEquivConc (none)	TRG	6/30/2006	16:00	7/6/2006	5:29	equipment blank contamination (J 0.015 ug/L)	327279
IWSE-03-003(0-0.5) MSD	20606293806	MSD	SW8081A	S	Dieldrin	J+ to RRs (none)	TRG	6/30/2006	12:00	7/5/2006	9:50	high ave MS/MSD recovery (174%)	327213
IWSE-03-003(0-0.5) MSD	20606293806	MSD	SW8081A	S	Dieldrin	J to RRs (none)	TRG	6/30/2006	12:00	7/5/2006	9:50	poor MS/MSD precision (65 RPD)	327213
LCSD for HBN 327464 [EXTO/1412	388385	LCSD	SW8081A	S	Endosulfan I	J- / UJ to RRs/NDs	TRG	7/6/2006	10:30	7/7/2006	14:42	low ave LCS/LCSD recovery (50.5%)	327554
IWSE-03-003(0-0.5) MSD	20606293806	MSD	SW8081A	S	Endosulfan I	J+ to RRs (none)	TRG	6/30/2006	12:00	7/5/2006	9:50	high ave MS/MSD recovery (305%)	327213
IWSE-03-003(0-0.5) MSD	20606293806	MSD	SW8081A	S	Endosulfan I	J to RRs (none)	TRG	6/30/2006	12:00	7/5/2006	9:50	poor MS/MSD precision (142 RPD)	327213
x	2060703sv17a047	CCV1	SW8081A		Endrin ketone	J+ to RRs (none)	Pest			7/4/06	9:28	calibration drift (%D= 16)	
IWSE-03-003(0-0.5) MSD	20606293806	MSD	SW8081A	S	gamma-Chlordane	J+ to RRs	TRG	6/30/2006	12:00	7/5/2006	9:50	high ave MS/MSD recovery (400.5%)	327213
IWSE-03-003(0-0.5) MSD	20606293806	MSD	SW8081A	S	gamma-Chlordane	J to RRs	TRG	6/30/2006	12:00	7/5/2006	9:50	poor MS/MSD precision (130 RPD)	327213
IWSE-13-013 (0-0.5)	20606293817	SMP	SW8081A	S	gamma-Chlordane	J to RR	TRG	6/30/2006	12:00	7/4/2006	13:10	high RPD (195%) between columns; lower value reported due to interference	327213
IWSE-14-014 (0-0.5)	20606293818	SMP	SW8081A	S	gamma-Chlordane	J to RR	TRG	6/30/2006	12:00	7/4/2006	13:31	high RPD (192%) between columns; lower value reported due to interference	327213
IWSE-15-015 (0-0.5)	20606293819	SMP	SW8081A	S	gamma-Chlordane	J to RR	TRG	6/30/2006	12:00	7/4/2006	13:52	high RPD (195%) between columns; lower value reported due to interference	327213
IWSE-11-011 (0-0.5)	20606293821	SMP	SW8081A	S	gamma-Chlordane	J to RR	TRG	6/30/2006	12:00	7/5/2006	8:26	high RPD (195%) between columns; lower value reported due to interference	327213
IWSE-03-003(0-0.5) MSD	20606293806	MSD	SW8081A	S	Heptachlor epoxide	J+ to RRs (none)	TRG	6/30/2006	12:00	7/5/2006	9:50	high ave MS/MSD recovery (270.5%)	327213
IWSE-03-003(0-0.5) MSD	20606293806	MSD	SW8081A	S	Heptachlor epoxide	J to RRs (none)	TRG	6/30/2006	12:00	7/5/2006	9:50	poor MS/MSD precision (98 RPD)	327213

ATTACHMENT 1

Sample_ID	Lab_Sample_ID	Test_type_code	Analytical_Method	Matrix	Parameter	ValidQualifier	Result_type_code	Prep_date	Prep_time	Analysis_Date	Analysis_Time	QC_comment	QC_Batch
IWSE-03-003(0-0.5) MSD	20606293806	MSD	SW8081A	S	Methoxychlor	J- / UJ to RRs/NDs	TRG	6/30/2006	12:00	7/5/2006	9:50	low ave MS/MSD recovery (31%)	327213
x	2060703sv16a076	CCV1	SW8081A		Methoxychlor	J+ to RRs (none)	Pest			7/5/06	15:15	calibration drift (%D= 17)	
x	2060703sv17a061	CCV1	SW8081A		Methoxychlor	J+ to RRs (none)	Pest			7/4/06	15:53	calibration drift (%D= 18)	
x	2060707sv17a012	CCV1	SW8081A		Methoxychlor	J+ to RRs (none)	Pest			7/7/06	17:09	calibration drift (%D= 17)	
x	2060707sv17a022	CCV1	SW8081A		Methoxychlor	J+ to RRs (none)	Pest			7/8/06	12:41	calibration drift (%D= 21)	
IWSE-04-004(0-0.5)	20606293807	SMP	SW8081A	S	Tetrachloro-m-xylene	none (only one of multiple surrogates is deficient)	SUR	7/6/2006	10:30	7/8/2006	10:53	low SU recovery (56%)	327554
IWSE-07-007(0-0.5)	20606293810	SMP	SW8081A	S	Tetrachloro-m-xylene	none (only one of multiple surrogates is deficient)	SUR	6/30/2006	12:00	7/4/2006	11:25	low SU recovery (53%)	327213
IWSE-08-008 (0-0.5)	20606293812	SMP	SW8081A	S	Tetrachloro-m-xylene	none (only one of multiple surrogates is deficient)	SUR	6/30/2006	12:00	7/4/2006	11:46	low SU recovery (52%)	327213
IWSE-10-010 (0-0.5)	20606293814	SMP	SW8081A	S	Tetrachloro-m-xylene	none (only one of multiple surrogates is deficient)	SUR	6/30/2006	12:00	7/4/2006	12:28	low SU recovery (59%)	327213
x	2060707sv17a003	CCV1	SW8082		AR 1016-Peak1	J- to RRs (none)	Aro			7/7/06	13:06	calibration drift (%D= -19)	
x	B5356	CCV1	SW8260B		1,2-Dichloroethane	J- / UJ to RRs/NDs	VOC			7/4/06	14:03	calibration drift (%D= -21)	
x	G5210	ICAL1	SW8260B		2-Chloroethyl vinyl ether	J / UJ to RRs/NDs	VOC			6/18/06	16:30	poor calibration fit (%RSD=26)	
IWSE-03-003(0-0.5) MSD	20606293806	MSD	SW8260B	S	2-Chloroethylvinyl ether	J- / UJ to RRs/NDs	TRG			7/3/2006	2:22	low ave MS/MSD recovery (47%)	327049
IW-036-EB	20606293811	EQBK	SW8260B	W	Acetone	U to RRs <= 10 x BlankEquivConc	TRG			7/1/2006	3:31	equipment blank contamination (J 4.35 ug/L)	326947
IW-037-FB	20606293815	TRIPBK	SW8260B	W	Acetone	U to RRs <= 10 x BlankEquivConc	TRG			7/1/2006	3:56	trip blank contamination (J 6.86 ug/L)	326947
x	B5356	CCV1	SW8260B		Acetone	J+ to RRs	VOC			7/4/06	14:03	calibration drift (%D= 28)	
IWSE-03-003(0-0.5) MSD	20606293806	MSD	SW8260B	S	Acrolein	J- / UJ to RRs/NDs	TRG			7/6/2006	17:32	low ave MS/MSD recovery (27.5%)	327202
x	B5236	ICAL1	SW8260B		Acrolein	J / UJ to RRs/NDs	VOC			7/2/06	11:48	low instrument response (low RRF); elevate SDL for NDs 5x (Sed)	
x	B5310	CCV1	SW8260B		Acrolein	J- / UJ to RRs/NDs	VOC			7/3/06	20:20	calibration drift (%D= -29)	
x	B5356	CCV1	SW8260B		Acrolein	J- / UJ to RRs/NDs	VOC			7/4/06	14:03	calibration drift (%D= -36)	
x	B5412	ICAL1	SW8260B		Acrolein	J / UJ to RRs/NDs	VOC			7/6/06	10:47	low instrument response (low RRF); elevate SDL for NDs 5x (Sed)	
x	B5310	CCV1	SW8260B		Acrylonitrile	J- / UJ to RRs/NDs	VOC			7/3/06	20:20	calibration drift (%D= -26)	
x	B5356	CCV1	SW8260B		Acrylonitrile	J- / UJ to RRs/NDs	VOC			7/4/06	14:03	calibration drift (%D= -23)	
x	B5310	CCV1	SW8260B		Bromomethane	J- / UJ to RRs/NDs	VOC			7/3/06	20:20	calibration drift (%D= -22)	
x	B5356	CCV1	SW8260B		Bromomethane	J- / UJ to RRs/NDs	VOC			7/4/06	14:03	calibration drift (%D= -23)	
IWSE-03-034-(0-0.5)	20606293804	SMP	SW8260B	S	cis-1,2-Dichloroethene	J / UJ to RRs/NDs	TRG			7/6/2006	16:12	large difference between field duplicate pair (> 3 x MQL)	327202
x	B5356	CCV1	SW8260B		Cyclohexane	J+ to RRs (none)	VOC			7/4/06	14:03	calibration drift (%D= 21)	
IWSE-03-034-(0-0.5) 1X	20608310801	SMP	SW8260B	S	IS1 (Fluorobenzene)	J / UJ to RRs/NDs quantitated with IS1	TRG			7/4/2006	0:48	low internal standard area (-54% of daily standard area)	327119
IWSE-03-034-(0-0.5) 1X	20608310801	SMP	SW8260B	S	IS2 (Chlorobenzene-d5)	J / UJ to RRs/NDs quantitated with IS2	TRG			7/4/2006	0:48	low internal standard area (-55% of daily standard area)	327119
IWSE-03-034-(0-0.5) 1X	20608310801	SMP	SW8260B	S	IS3 (1,4-Dichlorobenzene-d4)	J / UJ to RRs/NDs quantitated with IS3	TRG			7/4/2006	0:48	low internal standard area (-58% of daily standard area)	327119
x	B5310	CCV1	SW8260B		Methyl acetate	J- / UJ to RRs/NDs	VOC			7/3/06	20:20	calibration drift (%D= -30)	

ATTACHMENT 1

Sample_ID	Lab_Sample_ID	Test_type_code	Analytical_Method	Matrix	Parameter	Valid_qualifier	Result_type_code	Prep_date	Prep_time	Analysis_Date	Analysis_Time	QC_comment	QC_Batch
x	B5356	CCV1	SW8260B		Methyl acetate	J- / UJ to RRs/NDs	VOC			7/4/06	14:03	calibration drift (%D= -27)	
x	B5356	CCV1	SW8260B		Methyl cyclohexane	J+ to RRs	VOC			7/4/06	14:03	calibration drift (%D= 25)	
IW-036-EB	20606293811	EQBK	SW8260B	W	Methylene chloride	U to RRs <= 10 x BlankEquivConc	TRG			7/1/2006	3:31	equipment blank contamination (J 3.21 ug/L)	326947
IW-037-FB	20606293815	TRIPBK	SW8260B	W	Methylene chloride	U to RRs <= 10 x BlankEquivConc	TRG			7/1/2006	3:56	trip blank contamination (J 3.63 ug/L)	326947
x	G5023	ICAL2	SW8260B		n-Butyl alcohol	J / UJ to RRs/NDs	App9			6/14/06	7:30	low instrument response (low RRF); elevate SDL for NDs 2x (SW) or 50x (Sed)	
x	G5785	CCV2	SW8260B		n-Butyl alcohol	J+ to RRs (none)	App9			7/5/06	9:25	calibration drift (%D= 27)	
x	U7165	ICAL2	SW8260B		n-Butyl alcohol	J / UJ to RRs/NDs	App9			7/1/06	9:12	low instrument response (low RRF); elevate SDL for NDs 5x (Sed)	
IW-036-EB	20606293811	EQBK	SW8260B	W	Tetrachloroethene	U to RRs <= 5 x BlankEquivConc	TRG			7/1/2006	3:31	equipment blank contamination (J 1.12 ug/L)	326947
IWSE-03-034-(0-0.5)	20606293804	SMP	SW8260B	S	Trichloroethene	J / UJ to RRs/NDs	TRG			7/6/2006	16:12	large difference between field duplicate pair (> 3 x MQL)	327202
x	B5236	ICAL1	SW8260B		Vinyl Chloride	J / UJ to RRs/NDs	VOC			7/2/06	11:48	poor calibration fit (%RSD=19)	
x	B5412	ICAL1	SW8260B		Vinyl Chloride	J / UJ to RRs/NDs	VOC			7/6/06	10:47	poor calibration fit (%RSD=18)	
IWSE-01-001-(0-0.5)	20606293801	SMP	SW8270C	S	2,4,6-Tribromophenol	none (only one of multiple surrogates is deficient)	SUR	6/30/2006	10:00	7/2/2006	21:11	low SU recovery (54%)	327060
IWSE-02-002-(0-0.5)	20606293802	SMP	SW8270C	S	2,4,6-Tribromophenol	none (only one of multiple surrogates is deficient)	SUR	6/30/2006	10:00	7/2/2006	21:27	low SU recovery (54%)	327060
IWSE-05-005(0-0.5)	20606293808	SMP	SW8270C	S	2,4,6-Tribromophenol	none (only one of multiple surrogates is deficient)	SUR	6/30/2006	10:00	7/2/2006	22:11	low SU recovery (55%)	327060
IWSE-09-009 (0-0.5)	20606293813	SMP	SW8270C	S	2,4,6-Tribromophenol	none (only one of multiple surrogates is deficient)	SUR	7/3/2006	16:00	7/4/2006	17:49	low SU recovery (58%)	327192
LCSD for HBN 326840 [EXTO/1404	385658	LCSD	SW8270C	S	2,4-Dinitrophenol	J- / UJ to RRs/NDs	TRG	6/30/2006	10:00	7/2/2006	17:57	low ave LCS/LCSD recovery (57%)	327060
LCSD for HBN 326840 [EXTO/1404	385658	LCSD	SW8270C	S	2,4-Dinitrophenol	J to RRs (none)	TRG	6/30/2006	10:00	7/2/2006	17:57	poor LCS/LCSD precision (43 RPD)	327060
LCSD for HBN 327188 [EXTO/1409	387104	LCSD	SW8270C	S	2,4-Dinitrophenol	J- / UJ to RRs/NDs	TRG	7/3/2006	16:00	7/4/2006	16:03	low ave LCS/LCSD recovery (45%)	327192
LCSD for HBN 326840 [EXTO/1404	385658	LCSD	SW8270C	S	3-Nitroaniline	J- / UJ to RRs/NDs	TRG	6/30/2006	10:00	7/2/2006	17:57	low ave LCS/LCSD recovery (59%)	327060
IWSE-03-003(0-0.5) MSD	20606293806	MSD	SW8270C	S	3-Nitroaniline	J- / UJ to RRs/NDs	TRG	7/3/2006	16:00	7/4/2006	16:49	low ave MS/MSD recovery (58%)	327192
LCSD for HBN 327188 [EXTO/1409	387104	LCSD	SW8270C	S	4-Chloroaniline	J- / UJ to RRs/NDs	TRG	7/3/2006	16:00	7/4/2006	16:03	low ave LCS/LCSD recovery (56.5%)	327192
IWSE-03-003(0-0.5) MSD	20606293806	MSD	SW8270C	S	4-Nitroaniline	J- / UJ to RRs/NDs	TRG	7/3/2006	16:00	7/4/2006	16:49	low ave MS/MSD recovery (54%)	327192
IWSE-03-003(0-0.5) MSD	20606293806	MSD	SW8270C	S	4-Nitroaniline	J to RRs (none)	TRG	7/3/2006	16:00	7/4/2006	16:49	poor MS/MSD precision (63 RPD)	327192
IW-036-EB	20606293811	EQBK	SW8270C	W	Acetophenone	U to RRs <= 5 x BlankEquivConc (none)	TRG	6/30/2006	9:00	7/2/2006	3:24	equipment blank contamination (J 0.513 ug/L)	327031
x	B2295	CCV1	SW8270C		Aniline	J+ to RRs (none)	SVOC			7/4/06	10:27	calibration drift (%D= 21)	
LCSD for HBN 327188 [EXTO/1409	387104	LCSD	SW8270C	S	Benzaldehyde	J- / UJ to RRs/NDs	TRG	7/3/2006	16:00	7/4/2006	16:03	low ave LCS/LCSD recovery (20%)	327192
IWSE-03-003(0-0.5) MSD	20606293806	MSD	SW8270C	S	Benzaldehyde	J- / UJ to RRs/NDs	TRG	7/3/2006	16:00	7/4/2006	16:49	low ave MS/MSD recovery (52%)	327192
IWSE-03-003(0-0.5) MSD	20606293806	MSD	SW8270C	S	Benzaldehyde	J to RRs (none)	TRG	7/3/2006	16:00	7/4/2006	16:49	poor MS/MSD precision (92 RPD)	327192

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Sample_ID	Lab_Sample_ID	Test_type_code	Analytical_Method	Matrix	Parameter	ValidQualifier	Result_type_code	Prep_date	Prep_time	Analysis_Date	Analysis_Time	QC_comment	QC_Batch
x	B2295	CCV1	SW8270C		Benzaldehyde	J- / UJ to RRs/NDs	SVOC			7/4/2006	10:27	calibration drift (%D= -45)	
LCSD for HBN 326840 [EXTO/1404]	385658	LCSD	SW8270C	S	Benzidine	J- / UJ to RRs/NDs	TRG	6/30/2006	10:00	7/2/2006	17:57	low ave LCS/LCSD recovery (50.5%)	327060
LCSD for HBN 326840 [EXTO/1404]	385658	LCSD	SW8270C	S	Benzidine	J to RRs (none)	TRG	6/30/2006	10:00	7/2/2006	17:57	poor LCS/LCSD precision (57 RPD)	327060
LCSD for HBN 327188 [EXTO/1409]	387104	LCSD	SW8270C	S	Benzidine	J- / UJ to RRs/NDs	TRG	7/3/2006	16:00	7/4/2006	16:03	low ave LCS/LCSD recovery (42%)	327192
IWSE-03-003(0-0.5) MSD	20606293806	MSD	SW8270C	S	Benzidine	J- / UJ to RRs/NDs	TRG	7/3/2006	16:00	7/4/2006	16:49	low ave MS/MSD recovery (30%)	327192
IWSE-03-003(0-0.5) MSD	20606293806	MSD	SW8270C	S	Benzidine	J to RRs (none)	TRG	7/3/2006	16:00	7/4/2006	16:49	poor MS/MSD precision (188 RPD)	327192
x	B2208	CCV1	SW8270C		Benzidine	J- / UJ to RRs/NDs	SVOC			7/2/06	13:21	calibration drift (%D= -29)	
x	B2295	CCV1	SW8270C		Benzidine	J- / UJ to RRs/NDs	SVOC			7/4/06	10:27	calibration drift (%D= -86)	
LCSD for HBN 326840 [EXTO/1404]	385658	LCSD	SW8270C	S	Benzo(k)fluoranthene	J- / UJ to RRs/NDs	TRG	6/30/2006	10:00	7/2/2006	17:57	low ave LCS/LCSD recovery (58%)	327060
IWSE-03-003(0-0.5) MSD	20606293806	MSD	SW8270C	S	Benzoic acid	J- / UJ to RRs/NDs	TRG	7/3/2006	16:00	7/4/2006	16:49	low ave MS/MSD recovery (38.5%)	327192
MB for HBN 326840 [EXTO/14042]	385656	LB	SW8270C	S	Bis(2-Ethylhexyl)phthalate	U to RRs <= 10 x BlankEquivConc	TRG	6/30/2006	10:00	7/2/2006	17:27	laboratory blank contamination (J 20.4 ug/Kg)	327060
MB for HBN 327188 [EXTO/14097]	387102	LB	SW8270C	S	Bis(2-Ethylhexyl)phthalate	U to RRs <= 10 x BlankEquivConc	TRG	7/3/2006	16:00	7/4/2006	15:33	laboratory blank contamination (J 13.8 ug/Kg)	327192
IW-036-EB	20606293811	EQBK	SW8270C	W	Bis(2-Ethylhexyl)phthalate	U to RRs <= 10 x BlankEquivConc	TRG	6/30/2006	9:00	7/2/2006	3:24	equipment blank contamination ( 22.8 ug/L)	327031
IW-036-EB	20606293811	EQBK	SW8270C	W	Di-n-butyl phthalate	U to RRs <= 10 x BlankEquivConc	TRG	6/30/2006	9:00	7/2/2006	3:24	equipment blank contamination (J 2.5 ug/L)	327031
LCSD for HBN 326840 [EXTO/1404]	385658	LCSD	SW8270C	S	Fluoranthene	J- / UJ to RRs/NDs	TRG	6/30/2006	10:00	7/2/2006	17:57	low ave LCS/LCSD recovery (58.5%)	327060
IWSE-03-003(0-0.5) MSD	20606293806	MSD	SW8270C	S	Fluoranthene	J- / UJ to RRs/NDs	TRG	7/3/2006	16:00	7/4/2006	16:49	low ave MS/MSD recovery (55.5%)	327192
LCSD for HBN 326840 [EXTO/1404]	385658	LCSD	SW8270C	S	Hexachlorocyclopentadiene	J- / UJ to RRs/NDs	TRG	6/30/2006	10:00	7/2/2006	17:57	low ave LCS/LCSD recovery (37.5%)	327060
IWSE-03-003(0-0.5) MSD	20606293806	MSD	SW8270C	S	Hexachlorocyclopentadiene	J- / UJ to RRs/NDs	TRG	7/3/2006	16:00	7/4/2006	16:49	low ave MS/MSD recovery (52.5%)	327192
LCSD for HBN 326840 [EXTO/1404]	385658	LCSD	SW8270C	S	Hexachloroethane	J- / UJ to RRs/NDs	TRG	6/30/2006	10:00	7/2/2006	17:57	low ave LCS/LCSD recovery (54.5%)	327060
LCSD for HBN 327188 [EXTO/1409]	387104	LCSD	SW8270C	S	Hexachloroethane	J- / UJ to RRs/NDs	TRG	7/3/2006	16:00	7/4/2006	16:03	low ave LCS/LCSD recovery (59.5%)	327192
IWSE-03-003(0-0.5) MSD	20606293806	MSD	SW8270C	S	Hexachloroethane	J- / UJ to RRs/NDs	TRG	7/3/2006	16:00	7/4/2006	16:49	low ave MS/MSD recovery (58%)	327192
x	B2161	ICAL	SW8270C		Phenol	J / UJ to RRs/NDs	SVOC			7/1/06	18:17	poor calibration fit (%RSD=20)	
LCSD for HBN 326840 [EXTO/1404]	385658	LCSD	SW8270C	S	Pyridine	J- / UJ to RRs/NDs	TRG	6/30/2006	10:00	7/2/2006	17:57	low ave LCS/LCSD recovery (49.5%)	327060
x	B2161	ICAL	SW8270C		Pyridine	J / UJ to RRs/NDs	SVOC			7/1/06	18:17	poor calibration fit (%RSD=16)	
IWSE-03-003-(0-0.5)	20606293803	SMP	SW8270C	S	Terphenyl-d14	none (only one of multiple surrogates is deficient)	SUR	7/3/2006	16:00	7/4/2006	16:18	low SU recovery (56%)	327192
IWSE-06-006(0-0.5)	20606293809	SMP	SW8270C	S	Terphenyl-d14	none (only one of multiple surrogates is deficient)	SUR	7/3/2006	16:00	7/4/2006	17:04	low SU recovery (52%)	327192
IWSE-07-007(0-0.5)	20606293810	SMP	SW8270C	S	Terphenyl-d14	none (only one of multiple surrogates is deficient)	SUR	7/3/2006	16:00	7/4/2006	17:19	low SU recovery (53%)	327192
IWSE-08-008 (0-0.5)	20606293812	SMP	SW8270C	S	Terphenyl-d14	none (only one of multiple surrogates is deficient)	SUR	7/3/2006	16:00	7/4/2006	17:34	low SU recovery (48%)	327192

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Sample_ID	Lab_Sample_ID	Test_type_code	Analytical_Method	Matrix	Parameter	Valid_qualifier	Result_type_code	Prep_date	Prep_time	Analysis_Date	Analysis_Time	QC_comment	QC_Batch
IWSE-09-009 (0-0.5)	20606293813	SMP	SW8270C	S	Terphenyl-d14	none (only one of multiple surrogates is deficient)	SUR	7/3/2006	16:00	7/4/2006	17:49	low SU recovery (45%)	327192
IWSE-10-010 (0-0.5)	20606293814	SMP	SW8270C	S	Terphenyl-d14	none (only one of multiple surrogates is deficient)	SUR	7/3/2006	16:00	7/4/2006	18:04	low SU recovery (51%)	327192
IWSE-12-012 (0-0.5)	20606293816	SMP	SW8270C	S	Terphenyl-d14	none (only one of multiple surrogates is deficient)	SUR	7/3/2006	16:00	7/4/2006	18:19	low SU recovery (47%)	327192
IWSE-13-013 (0-0.5)	20606293817	SMP	SW8270C	S	Terphenyl-d14	none (only one of multiple surrogates is deficient)	SUR	7/3/2006	16:00	7/4/2006	18:34	low SU recovery (48%)	327192
IWSE-14-014 (0-0.5)	20606293818	SMP	SW8270C	S	Terphenyl-d14	none (only one of multiple surrogates is deficient)	SUR	7/3/2006	16:00	7/4/2006	18:49	low SU recovery (48%)	327192
IWSE-15-015 (0-0.5)	20606293819	SMP	SW8270C	S	Terphenyl-d14	none (only one of multiple surrogates is deficient)	SUR	7/3/2006	16:00	7/4/2006	19:04	low SU recovery (48%)	327192
IWSE-16-016 (0-0.5)	20606293820	SMP	SW8270C	S	Terphenyl-d14	none (only one of multiple surrogates is deficient)	SUR	7/3/2006	16:00	7/4/2006	19:19	low SU recovery (47%)	327192
IWSE-11-011 (0-0.5)	20606293821	SMP	SW8270C	S	Terphenyl-d14	none (only one of multiple surrogates is deficient)	SUR	7/3/2006	16:00	7/4/2006	19:34	low SU recovery (45%)	327192

DATA VALIDATION CHECKLIST (Level III)				
ITEM	Yes	No	NA	Comment Number
Client Name: Pastor, Behling, & Wheeler				Project Number: 1352
Property Location: Gulfco Superfund Site				Project Manager: Eric Pastor
Laboratory: GCAL – Baton Rouge, LA				Laboratory Job No.: 206071403
Reviewer: Taryn Scholz (QAA, L.L.C.)				Date Checked: 9/4/06
<b>Chain of Custody (COC) and Sample Receipt at Lab</b>				
1. Signed COCs included and seals used?	x			
2. Date and time of sample collection included?	x			
3. All samples listed on the COC analyzed for in accordance with the RI/FS Work Plan?	x			
4. Field QC sample frequency met project requirements?	x			
5. Sample receipt temperature 2-6°C?	x			
6. Samples preserved appropriately?	x			
7. Samples received within 2 days of collection?	x			
8. No problems noted?	x			
<b>Laboratory Report and Data Package</b>				
9. Signed Case Narrative included?	x			
10. No analytical discrepancies noted in case narrative?		x		10.
11. Elevated reporting limits justified?			x	
12. MDLs reasonable per DCS?	x			
13. Calibration data acceptable?	x			
14. ICV and CCV recoveries within project control limits?	x			
15. ICB and CCB results <RL (MQL)?	x			
16. Internal standard areas within project control limits?			x	
<b>Laboratory EDD</b>				
17. Field sample IDs included?	x			
18. Laboratory sample IDs included?	x			
19. Date of analysis included?	x			
20. Date of sample preparation included?			x	
21. Samples prepared within holding time?			x	
22. Samples analyzed within holding time?	x			
23. Detection limit and quantitation limit included?	x			
24. Project target limits achieved?		x		24.
25. No elevated reporting limits?	x			
26. Method references included?	x			
27. Sample matrix included?	x			
28. Sample result units reported correctly?	x			
29. Soil/ sediment results corrected for dry-weight?			x	
30. Method blank results <RL (MDL)?	x			
31. Equipment and Trip blank results <RL (MDL)?	x			
32. All COIs included in LCS?	x			
33. LCS recovery within project control limits?	x			
34. MS/MSD recoveries within project control limits?	x			
35. LCS/LCSD RPDs within project control limits?			x	
36. MS/MSD RPDs within project control limits?	x			
37. Laboratory duplicate RPDs/Diffs within project control limits?	x			
38. Field duplicate RPDs/Diffs within project control limits?	x			
39. Surrogate recoveries within project control limits?			x	
40. Completeness percentage within project limits?	x			

<p>Definitions:</p> <p><b>CCB</b> – Continuing Calibration Blank; <b>CCV</b> – Continuing Calibration Verification; <b>COI</b> – Compounds of Interest; <b>DCS</b> – Detectability Check Sample; <b>ICB</b> – Initial Calibration Blank; <b>ICV</b> – Initial Calibration Verification; <b>LCS</b> – Laboratory Control Sample; <b>LCSD</b> – Laboratory Control Sample Duplicate; <b>MDL</b> – Method Detection Limit; <b>MS/MSD</b> – Matrix Spike/Matrix Spike Duplicate; <b>RL</b> – Reporting Limit; <b>RPD</b> – Relative Percent Difference</p>			
<b>COMMENTS</b>			
Level IV Check - Metals Total vs. Dissolved also included after deficiencies noted in previous samples. No deficiencies found in this set.			
10. DUP RPD for batch 327780 does not apply because conc < 5xRL. (Difference check applied and passes.)			
24. Actual MDL of 0.010 mg/L slightly above target of 0.008 mg/L but well below PSV (0.0496 mg/L).			

**SET SUMMARY**  
**Laboratory Job No.: 206071403**

7	Number of Field Samples including Field Duplicates (1)
1	Number of Field MS/MSD Pairs
1	Number of Equipment Rinsate Blanks
1	Number of Field Blanks
NA	Number of VOC Trip Blanks
2	Number of Parameters (Cr VI-total, Cr VI-dissolved)
2	Number of Target Analytes per Sample
14	Total Measurements for Field Samples
14	Number of measurements with no flag
0	Number of measurements with UJ flag
0	Number of measurements with J- flag
0	Number of measurements with J flag
0	Number of measurements with J+ flag
0	Number of measurements with U flag
0	Number of measurement with NS flag
0	Number of measurements with R flag
100%	Completeness-to-date on a sample level (percentage of all surface water samples, including ICWW and pond surface water, with usable data, project goal 90%)
100%	Completeness-to-date on an analyte level (percentage of sediment samples, including ICWW and pond surface water, with usable data for a specific analyte, project goal 80%) – Chromium VI

Usability: All data suitable for the intended use

### QUALIFIED DATA TABLE

Field Sample Identification	Total_or_dissolved	Analyte	Data Qualifier	Reason for Qualification
none				

## DATA VALIDATION CHECKLIST

(Level III)

Client Name: Pastor, Behling, & Wheeler	Project Number: 1352		
Property Location: Gulfco Superfund Site	Project Manager: Eric Pastor		
Laboratory: GCAL – Baton Rouge, LA	Laboratory Job No.: 206080105		
Reviewer: Taryn Scholz/ Don Flory (QAA, L.L.C.)	Date Checked: 9/22/06		
ITEM	Yes	No	NA
<b>Chain of Custody (COC) and Sample Receipt at Lab</b>			<b>Comment Number</b>
1. Signed COCs included and seals used?	x		
2. Date and time of sample collection included?	x		2.
3. All samples listed on the COC analyzed for in accordance with the RI/FS Work Plan?		x	3.
4. Field QC sample frequency met project requirements?	x		4.
5. Sample receipt temperature 2-6°C?	x		
6. Samples preserved appropriately?	x		
7. Samples received within 2 days of collection?	x		
8. No problems noted?	x		
<b>Laboratory Report and Data Package</b>			
9. Signed Case Narrative included?	x		
10. No analytical discrepancies noted in case narrative?		x	10.
11. Elevated reporting limits justified?	x		11.
12. MDLs reasonable per DCS?	x		
13. Calibration data acceptable?		x	see attached
14. ICV and CCV recoveries within project control limits?		x	see attached
15. ICB and CCB results <RL (MQL)?	x		
16. Internal standard areas within project control limits?	x		
<b>Laboratory EDD</b>			
17. Field sample IDs included?	x		17.
18. Laboratory sample IDs included?	x		
19. Date of analysis included?	x		
20. Date of sample preparation included?	x		
21. Samples prepared within holding time?	x		
22. Samples analyzed within holding time?	x		
23. Detection limit and quantitation limit included?	x		
24. Project target limits achieved?		x	24.
25. No elevated reporting limits?		x	25.
26. Method references included?	x		
27. Sample matrix included?	x		
28. Sample result units reported correctly?	x		28.
29. Soil/ sediment results corrected for dry-weight?			x
30. Method blank results <RL (MDL)?		x	see attached
31. Equipment and Trip blank results <RL (MDL)?		x	31. see attached
32. All COIs included in LCS?	x		32.
33. LCS recovery within project control limits?		x	see attached
34. MS/MSD recoveries within project control limits?		x	34. see attached
35. LCS/LCSD RPDs within project control limits?		x	see attached
36. MS/MSD RPDs within project control limits?	x		
37. Laboratory duplicate RPDs/Diffs within project control limits?	x		
38. Field duplicate RPDs/Diffs within project control limits?			x no FDUP
39. Surrogate recoveries within project control limits?		x	see attached
40. Completeness percentage within project limits?		x	40.

Definitions: <b>CCB</b> – Continuing Calibration Blank; <b>CCV</b> – Continuing Calibration Verification; <b>COI</b> – Compounds of Interest; <b>DCS</b> – Detectability Check Sample; <b>ICB</b> – Initial Calibration Blank; <b>ICV</b> – Initial Calibration Verification; <b>LCS</b> – Laboratory Control Sample; <b>LCSD</b> – Laboratory Control Sample Duplicate; <b>MDL</b> – Method Detection Limit; <b>MS/MSD</b> – Matrix Spike/Matrix Spike Duplicate; <b>RL</b> – Reporting Limit; <b>RPD</b> – Relative Percent Difference				
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## COMMENTS

Level IV Check - GC/MS RRF for instrument calibration also included in Level III checks after deficiencies noted in first samples – see attached for deficiencies noted

2. Four TBs have no Collection Date on Chain or in EDD.
3. Hardness reported for all samples except SJ7MW16-016 and SD3PZ08-008. This analyte not required for GW samples, so no further action taken. Anions/Cations are requested on the Chain for sample SF6MW11-011 but Ca, Mg, K, Na are not reported. Hardness is reported, so no further action taken.
4. No MS/MSD or field duplicate collected with these samples. Frequency for all GW sample sets is > 1-to-20 for field duplicates but only 1-to-27 for MS/MSD for SVOC, Pest, PCB. (The lab chose a GW sample to prepare MS/MSD for internal QC for Metals and VOC.) This is not considered to significantly affect data quality.

10. Issues noted for all parameters. All are based on laboratory limits, which do not affect flagging for this site, except:

Pest – No MS/MSD due to insufficient volume; RT window originally set too wide, revisions submitted for results for 1 sample (Since the original EDD (submitted 9/8/06) was not yet validated, it was deleted and the revised EDD (submitted 9/18/06) has no suffix.)

Aroclor – No MS/MSD due to insufficient volume.

11. One VOC sample diluted due to high levels of TA; Four metals samples diluted due to high levels of TAs and/or chemical/physical interference; Chloride/Sulfate diluted due to high levels of TAs

17. Sample IDs for Lab ID 01, 02, 10, 12, 13 in EDD differ slightly from those on Chain-of-Custody due to corrections requested by PBW as follows:

### CORRECTED SAMPLE ID IN EDD (on Chain)

SH7MW14-014 (SH7MW-14)  
SJ7MW16-016 (SJ7MW-16)  
SF6MW11-011 (SF6MW11)  
SE6MW09-009 (SE6MW09)  
SF7MW12-012 (SF7MW-12)

24. Chloride actual MDL of 0.53 mg/L slightly above target of 0.333 mg/L but no PSV for this analyte; Sulfate actual MDL of 1.9 mg/L slightly above target of 1.67 mg/L but no PSV for this analyte; Copper actual MDL (0.003 mg/L) slightly above Target (0.002 mg/L) but below PSV (0.0036 mg/L)

25. Four metals samples diluted 2-5x for one or more metals; One VOC sample diluted 2500x for all TAs; Chloride and Sulfate diluted in the one sample.

28. For organics, the SDLs and SQLs are in mg/L as requested for samples logged in after 7/31/06; however, the user should note that the MDLs and MQLs are in ug/L and this is not accounted for in the Prep Factor or Dilution Factor.

31. The GW equipment and field blanks have low levels of contamination for numerous analytes, which (for the organic contaminants) is attributed to the location of the site. Note that, in some cases, these contaminants were not detected in the samples or were also present in the laboratory blanks.

32. All analytes routinely spiked by lab are included as per QAPP. This is every TA except n-Butyl alcohol, Toxaphene, and the 5 middle Aroclors.

34. No MS/MSD collected with this set; The lab prepared a MS/MSD pair using a sample from this set for Metals, Cr(VI), and VOC. LCS/LCSD reported for other parameters. In the hardcopy report, some MS/MSD are included that are from another site or another sampling event for this site. Only MS/MSD prepared using a sample of the same media (i.e., GW, ICWW SW, Pond SW, ICWW Sediment, OnSite Sediment, or Soil Borings) that was collected at the same time were used to assess data quality for a given set of samples.

40. Low analyte-level completeness for two SVOC poor performers (Benzoic acid and Benzidine)

4 of 20

**SET SUMMARY**  
**Laboratory Job No.: 206080105**

7	Number of Field Samples including Field Duplicates (0)
0	Number of Field MS/MSD Pairs
2	Number of Equipment Rinsate Blanks
2	Number of Field Blanks
6	Number of VOC Trip Blanks
9	Number of Parameters (VOC, SVOC, Pesticides, Aroclors, Metals-Total, Cr(VI)-Total, TDS, Chloride, Sulfate)
203	Number of Target Analytes per Sample
1401	Total Measurements for Field Samples (TDS, Chloride, Sulfate only requested for one sample; Hardness not reported for two samples)
1086	Number of measurements with no validation qualifier (i.e., "none" in EDD)
201	Number of measurements with UJ flag (for various analytes due to low laboratory spike, matrix spike and/or surrogate spike recovery; poor calibration fit and/or negative drift)
28	Number of measurements with UJ flag and an elevated SDL (for Acrolein, Chloroethane, Trichlorotrifluoroethane, and n-Butyl alcohol due to poor instrument response, i.e., low RRF)
1	Number of measurements with J- flag (for m,p-Cresol due to low matrix spike and surrogate spike recovery)
52	Number of measurements with J flag (due solely to result being between the SDL and SQL)
4	Number of measurements with J flag (due to result being between the SDL and SQL plus extremely low laboratory spike recovery for one Benzoic Acid result and low laboratory spike recovery for three cresol results)
0	Number of measurements with J+ flag
23	Number of measurements with U flag (due to blank contamination; analytes affected include Acetone, Bis(2-Ethylhexyl)phthalate, Di-n-butyl phthalate, gamma-BHC (Lindane), Mercury, Naphthalene, Vanadium)
0	Number of measurements with NS flag
6	Number of measurements with R flag (for the six Benzoic Acid non-detects due to extremely low laboratory spike recovery of 8%)
100%	Completeness-to-date on a sample level (percentage of groundwater samples with usable data, project goal 90%)
67%	Completeness-to-date on an analyte level (percentage of groundwater samples with usable data for a specific analyte, project goal 80%) – Benzidine
59%	Completeness-to-date on an analyte level (percentage of groundwater samples with usable data for a specific analyte, project goal 80%) – Benzoic Acid
100%	Completeness-to-date on an analyte level (percentage of groundwater samples with usable data for a specific analyte, project goal 80%) – all other target analytes

Usability: All data suitable as qualified for the intended use except for the six non-detects for Benzoic Acid. Data for Acrolein, Chloroethane, Trichlorotrifluoroethane, and n-Butyl alcohol are usable with an elevated reporting limit for the non-detects (as given in the Electronic Data Deliverable). Measurements qualified with a U-flag should be considered not present at the concentration reported.

## QUALIFIED DATA TABLE

Field Sample Identification	Total_or_dissolved	Analyte	Data Qualifier	Reason for Qualification
ND3PZ04-004	total	Cobalt	J	result is between SDL and SQL
ND3PZ04-004	total	Nickel	J	result is between SDL and SQL
ND3PZ04-004	total	Silver	J	result is between SDL and SQL
ND3PZ04-004	total	Vanadium	J	result is between SDL and SQL
ND3PZ04-004		Chromium VI	UJ	low MS recovery (62%)
ND3PZ04-004		gamma-BHC (Lindane)	U	equipment blank contamination (0.0000731 mg/L); field blank contamination (0.0000593 mg/L)
ND3PZ04-004		Aroclor-1016	UJ	calibration drift (%D= -19), calibration drift (%D= -20), low SU recovery (47%)
ND3PZ04-004		Aroclor-1221	UJ	low SU recovery (47%)
ND3PZ04-004		Aroclor-1232	UJ	low SU recovery (47%)
ND3PZ04-004		Aroclor-1242	UJ	low SU recovery (47%)
ND3PZ04-004		Aroclor-1248	UJ	low SU recovery (47%)
ND3PZ04-004		Aroclor-1254	UJ	low SU recovery (47%)
ND3PZ04-004		Aroclor-1260	UJ	low SU recovery (47%)
ND3PZ04-004		1,2-Dichloropropane	J	result is between SDL and SQL
ND3PZ04-004		Acrolein	UJ	low instrument response (low RRF); elevate SDL for NDs 15x (GW)
ND3PZ04-004		Benzene	J	result is between SDL and SQL
ND3PZ04-004		Carbon tetrachloride	J	result is between SDL and SQL
ND3PZ04-004		Chloroethane	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (GW)
ND3PZ04-004		n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (SW/GW) or 50x (Sed)
ND3PZ04-004		Tetrachloroethene	J	result is between SDL and SQL
ND3PZ04-004		Toluene	J	result is between SDL and SQL
ND3PZ04-004		Trichlorotrifluoroethane	UJ	low instrument response (low RRF); elevate SDL for NDs 3x (GW)
ND3PZ04-004		Vinyl chloride	J	result is between SDL and SQL
ND3PZ04-004		2,4,5-Trichlorophenol	UJ	2 low Acid SU recoveries (56%, 47%)
ND3PZ04-004		2,4,6-Trichlorophenol	UJ	2 low Acid SU recoveries (56%, 47%)
ND3PZ04-004		2,4-Dichlorophenol	UJ	2 low Acid SU recoveries (56%, 47%)
ND3PZ04-004		2,4-Dimethylphenol	UJ	2 low Acid SU recoveries (56%, 47%)
ND3PZ04-004		2,4-Dinitrophenol	UJ	low LCS/LCSD ave recovery (38%); 2 low Acid SU recoveries (56%, 47%)
ND3PZ04-004		2-Chlorophenol	UJ	2 low Acid SU recoveries (56%, 47%)
ND3PZ04-004		2-Nitrophenol	UJ	2 low Acid SU recoveries (56%, 47%)
ND3PZ04-004		4,6-Dinitro-2-methylphenol	UJ	2 low Acid SU recoveries (56%, 47%)
ND3PZ04-004		4-Chloro-3-methylphenol	UJ	2 low Acid SU recoveries (56%, 47%)
ND3PZ04-004		4-Nitrophenol	UJ	low LCS/LCSD ave recovery (38%); 2 low Acid SU recoveries (56%, 47%)
ND3PZ04-004		Aniline	UJ	low LCS/LCSD ave recovery (57%)
ND3PZ04-004		Benzaldehyde	UJ	calibration drift (%D= -21)
ND3PZ04-004		Benzidine	UJ	poor calibration fit (%RSD=50), calibration drift (%D= -51), low LCS/LCSD ave recovery (48.5%)
ND3PZ04-004		Benzoic acid	R	extremely low LCS/LCSD ave recovery (8%)
ND3PZ04-004		Bis(2-Ethylhexyl)phthalate	U	laboratory blank contamination (0.000651 J mg/L); equipment blank contamination (0.000925 JB mg/L); field blank contamination (0.000798 JB mg/L); result is between SDL and SQL
ND3PZ04-004		Caprolactam	UJ	low LCS/LCSD ave recovery (28%)
ND3PZ04-004		Di-n-butyl phthalate	U	field blank contamination (0.000978 J mg/L)
ND3PZ04-004		Di-n-octyl phthalate	UJ	poor calibration fit (%RSD=17)
ND3PZ04-004		Fluorene	J	result is between SDL and SQL

## QUALIFIED DATA TABLE

ND3PZ04-004		Hexachlorocyclopentadiene	UJ	low LCS/LCSD ave recovery (55%)
ND3PZ04-004		Hexachloroethane	UJ	low LCS/LCSD ave recovery (59%)
ND3PZ04-004		m,p-Cresol	J-	low LCS/LCSD ave recovery (58%); 2 low Acid SU recoveries (56%, 47%)
ND3PZ04-004		n-Nitrosodimethylamine	UJ	poor calibration fit (%RSD=28), calibration drift (%D= -31), low LCS/LCSD ave recovery (24%)
ND3PZ04-004		o-Cresol	J	result is between SDL and SQL, low LCS/LCSD ave recovery (59%), 2 low Acid SU recoveries (56%, 47%)
ND3PZ04-004		Pentachlorophenol	UJ	2 low Acid SU recoveries (56%, 47%)
ND3PZ04-004		Phenol	UJ	low LCS/LCSD ave recovery (31.5%); 2 low Acid SU recoveries (56%, 47%)
ND3PZ04-004		Pyridine	UJ	poor calibration fit (%RSD=24), calibration drift (%D= -48), low LCS/LCSD ave recovery (19.5%)
SD3PZ08-008	total	Boron	J	result is between SDL and SQL
SD3PZ08-008	total	Nickel	J	result is between SDL and SQL
SD3PZ08-008	total	Selenium	J	result is between SDL and SQL
SD3PZ08-008	total	Silver	J	result is between SDL and SQL
SD3PZ08-008	total	Thallium	J	result is between SDL and SQL
SD3PZ08-008		Chromium VI	UJ	low MS recovery (62%)
SD3PZ08-008		Aroclor-1016	UJ	calibration drift (%D= -19), calibration drift (%D= -20), low SU recovery (55%)
SD3PZ08-008		Aroclor-1221	UJ	low SU recovery (55%)
SD3PZ08-008		Aroclor-1232	UJ	low SU recovery (55%)
SD3PZ08-008		Aroclor-1242	UJ	low SU recovery (55%)
SD3PZ08-008		Aroclor-1248	UJ	low SU recovery (55%)
SD3PZ08-008		Aroclor-1254	UJ	low SU recovery (55%)
SD3PZ08-008		Aroclor-1260	UJ	low SU recovery (55%)
SD3PZ08-008		Acetone	U	equipment blank contamination (0.015 J mg/L); trip blank contamination (0.0033 JB mg/L); result is between SDL and SQL
SD3PZ08-008		Acrolein	UJ	low instrument response (low RRF); elevate SDL for NDs 15x (GW)
SD3PZ08-008		Chloroethane	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (GW)
SD3PZ08-008		n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (SW/GW) or 50x (Sed)
SD3PZ08-008		Trichlorotrifluoroethane	UJ	low instrument response (low RRF); elevate SDL for NDs 3x (GW)
SD3PZ08-008		2,4,5-Trichlorophenol	UJ	2 low Acid SU recoveries (54%, 46%)
SD3PZ08-008		2,4,6-Trichlorophenol	UJ	2 low Acid SU recoveries (54%, 46%)
SD3PZ08-008		2,4-Dichlorophenol	UJ	2 low Acid SU recoveries (54%, 46%)
SD3PZ08-008		2,4-Dimethylphenol	UJ	2 low Acid SU recoveries (54%, 46%)
SD3PZ08-008		2,4-Dinitrophenol	UJ	low LCS/LCSD ave recovery (38%); 2 low Acid SU recoveries (54%, 46%)
SD3PZ08-008		2-Chlorophenol	UJ	2 low Acid SU recoveries (54%, 46%)
SD3PZ08-008		2-Methylnaphthalene	J	result is between SDL and SQL
SD3PZ08-008		2-Nitrophenol	UJ	2 low Acid SU recoveries (54%, 46%)
SD3PZ08-008		4,6-Dinitro-2-methylphenol	UJ	2 low Acid SU recoveries (54%, 46%)
SD3PZ08-008		4-Chloro-3-methylphenol	UJ	2 low Acid SU recoveries (54%, 46%)
SD3PZ08-008		4-Nitrophenol	UJ	low LCS/LCSD ave recovery (38%); 2 low Acid SU recoveries (54%, 46%)
SD3PZ08-008		Aniline	UJ	low LCS/LCSD ave recovery (57%)
SD3PZ08-008		Benzaldehyde	UJ	calibration drift (%D= -21)
SD3PZ08-008		Benzidine	UJ	poor calibration fit (%RSD=50), calibration drift (%D= -51), low LCS/LCSD ave recovery (48.5%)
SD3PZ08-008		Benzoic acid	R	extremely low LCS/LCSD ave recovery (8%)
SD3PZ08-008		Biphenyl	J	result is between SDL and SQL

## QUALIFIED DATA TABLE

SD3PZ08-008		Bis(2-Ethylhexyl)phthalate	U	laboratory blank contamination (0.000651 J mg/L); equipment blank contamination (0.000925 JB mg/L); field blank contamination (0.000798 JB mg/L); result is between SDL and SQL
SD3PZ08-008		Caprolactam	UJ	low LCS/LCSD ave recovery (28%)
SD3PZ08-008		Carbazole	J	result is between SDL and SQL
SD3PZ08-008		Di-n-butyl phthalate	U	field blank contamination (0.000978 J mg/L); result is between SDL and SQL
SD3PZ08-008		Di-n-octyl phthalate	UJ	poor calibration fit (%RSD=17)
SD3PZ08-008		Fluorene	J	result is between SDL and SQL
SD3PZ08-008		Hexachlorocyclopentadiene	UJ	low LCS/LCSD ave recovery (55%)
SD3PZ08-008		Hexachloroethane	UJ	low LCS/LCSD ave recovery (59%)
SD3PZ08-008		m,p-Cresol	J	result is between SDL and SQL, low LCS/LCSD ave recovery (58%), 2 low Acid SU recoveries (54%, 46%)
SD3PZ08-008		n-Nitrosodimethylamine	UJ	poor calibration fit (%RSD=28), calibration drift (%D= -31), low LCS/LCSD ave recovery (24%)
SD3PZ08-008		o-Cresol	J	result is between SDL and SQL, low LCS/LCSD ave recovery (59%), 2 low Acid SU recoveries (54%, 46%)
SD3PZ08-008		Pentachlorophenol	UJ	2 low Acid SU recoveries (54%, 46%)
SD3PZ08-008		Phenanthrene	J	result is between SDL and SQL
SD3PZ08-008		Phenol	UJ	low LCS/LCSD ave recovery (31.5%); 2 low Acid SU recoveries (54%, 46%)
SD3PZ08-008		Pyridine	UJ	poor calibration fit (%RSD=24), calibration drift (%D= -48), low LCS/LCSD ave recovery (19.5%)
SE6MW09-009	total	Cobalt	J	result is between SDL and SQL
SE6MW09-009	total	Nickel	J	result is between SDL and SQL
SE6MW09-009	total	Silver	J	result is between SDL and SQL
SE6MW09-009	total	Vanadium	U	equipment blank contamination (0.0038 B mg/L); field blank contamination (0.0036 B mg/L); result is between SDL and SQL
SE6MW09-009		Chromium VI	UJ	low MS recovery (62%)
SE6MW09-009		Aroclor-1016	UJ	calibration drift (%D= -19), calibration drift (%D= -20)
SE6MW09-009		2-Butanone	J	result is between SDL and SQL
SE6MW09-009		Acetone	U	equipment blank contamination (0.015 J mg/L); trip blank contamination (0.0033 JB mg/L); result is between SDL and SQL
SE6MW09-009		Acrolein	UJ	low instrument response (low RRF); elevate SDL for NDs 15x (GW)
SE6MW09-009		Acrylonitrile	J	result is between SDL and SQL
SE6MW09-009		Benzene	J	result is between SDL and SQL
SE6MW09-009		Chloroethane	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (GW)
SE6MW09-009		cis-1,2-Dichloroethene	J	result is between SDL and SQL
SE6MW09-009		Isopropylbenzene (Cumene)	J	result is between SDL and SQL
SE6MW09-009		Naphthalene	U	laboratory blank contamination (0.00106 J mg/L); result is between SDL and SQL
SE6MW09-009		n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (SW/GW) or 50x (Sed)
SE6MW09-009		Trichlorotrifluoroethane	UJ	low instrument response (low RRF); elevate SDL for NDs 3x (GW)
SE6MW09-009		2,4,5-Trichlorophenol	UJ	2 low Acid SU recoveries (46%, 30%)
SE6MW09-009		2,4,6-Trichlorophenol	UJ	2 low Acid SU recoveries (46%, 30%)
SE6MW09-009		2,4-Dichlorophenol	UJ	2 low Acid SU recoveries (46%, 30%)
SE6MW09-009		2,4-Dimethylphenol	UJ	2 low Acid SU recoveries (46%, 30%)
SE6MW09-009		2,4-Dinitrophenol	UJ	low LCS/LCSD ave recovery (38%); 2 low Acid SU recoveries (46%, 30%)
SE6MW09-009		2-Chlorophenol	UJ	2 low Acid SU recoveries (46%, 30%)
SE6MW09-009		2-Nitrophenol	UJ	2 low Acid SU recoveries (46%, 30%)

## QUALIFIED DATA TABLE

SE6MW09-009		4,6-Dinitro-2-methylphenol	UJ	2 low Acid SU recoveries (46%, 30%)
SE6MW09-009		4-Chloro-3-methylphenol	UJ	2 low Acid SU recoveries (46%, 30%)
SE6MW09-009		4-Nitrophenol	UJ	low LCS/LCSD ave recovery (38%); 2 low Acid SU recoveries (46%, 30%)
SE6MW09-009		Aniline	UJ	low LCS/LCSD ave recovery (57%)
SE6MW09-009		Benzaldehyde	UJ	calibration drift (%D= -21)
SE6MW09-009		Benzidine	UJ	poor calibration fit (%RSD=50), calibration drift (%D= -51), low LCS/LCSD ave recovery (48.5%)
SE6MW09-009		Benzoic acid	R	extremely low LCS/LCSD ave recovery (8%)
SE6MW09-009		Bis(2-Ethylhexyl)phthalate	U	laboratory blank contamination (0.000651 J mg/L); equipment blank contamination (0.000925 JB mg/L); field blank contamination (0.000798 JB mg/L); result is between SDL and SQL
SE6MW09-009		Caprolactam	UJ	low LCS/LCSD ave recovery (28%)
SE6MW09-009		Di-n-octyl phthalate	UJ	poor calibration fit (%RSD=17)
SE6MW09-009		Hexachlorocyclopentadiene	UJ	low LCS/LCSD ave recovery (55%)
SE6MW09-009		Hexachloroethane	UJ	low LCS/LCSD ave recovery (59%)
SE6MW09-009		m,p-Cresol	UJ	low LCS/LCSD ave recovery (58%); 2 low Acid SU recoveries (46%, 30%)
SE6MW09-009		n-Nitrosodimethylamine	UJ	poor calibration fit (%RSD=28), calibration drift (%D= -31), low LCS/LCSD ave recovery (24%)
SE6MW09-009		o-Cresol	UJ	low LCS/LCSD ave recovery (59%); 2 low Acid SU recoveries (46%, 30%)
SE6MW09-009		Pentachlorophenol	UJ	2 low Acid SU recoveries (46%, 30%)
SE6MW09-009		Phenol	UJ	low LCS/LCSD ave recovery (31.5%); 2 low Acid SU recoveries (46%, 30%)
SE6MW09-009		Pyridine	UJ	poor calibration fit (%RSD=24), calibration drift (%D= -48), low LCS/LCSD ave recovery (19.5%)
SF6MW11-011	total	Antimony	J	result is between SDL and SQL
SF6MW11-011	total	Cobalt	J	result is between SDL and SQL
SF6MW11-011	total	Nickel	J	result is between SDL and SQL
SF6MW11-011	total	Silver	J	result is between SDL and SQL
SF6MW11-011	total	Titanium	J	result is between SDL and SQL
SF6MW11-011	total	Vanadium	J	result is between SDL and SQL
SF6MW11-011		Chromium VI	UJ	low MS recovery (62%)
SF6MW11-011	total	Mercury	U	laboratory blank contamination (0.00009 B mg/L); result is between SDL and SQL
SF6MW11-011		Aroclor-1016	UJ	calibration drift (%D= -19), calibration drift (%D= -20), low SU recovery (55%)
SF6MW11-011		Aroclor-1221	UJ	low SU recovery (55%)
SF6MW11-011		Aroclor-1232	UJ	low SU recovery (55%)
SF6MW11-011		Aroclor-1242	UJ	low SU recovery (55%)
SF6MW11-011		Aroclor-1248	UJ	low SU recovery (55%)
SF6MW11-011		Aroclor-1254	UJ	low SU recovery (55%)
SF6MW11-011		Aroclor-1260	UJ	low SU recovery (55%)
SF6MW11-011		Acrolein	UJ	low instrument response (low RRF); elevate SDL for NDs 15x (GW)
SF6MW11-011		Chloroethane	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (GW)
SF6MW11-011		n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (SW/GW) or 50x (Sed)
SF6MW11-011		Trichlorotrifluoroethane	UJ	low instrument response (low RRF); elevate SDL for NDs 3x (GW)
SF6MW11-011		2,4,5-Trichlorophenol	UJ	2 low Acid SU recoveries (55%, 40%)
SF6MW11-011		2,4,6-Trichlorophenol	UJ	2 low Acid SU recoveries (55%, 40%)
SF6MW11-011		2,4-Dichlorophenol	UJ	2 low Acid SU recoveries (55%, 40%)
SF6MW11-011		2,4-Dimethylphenol	UJ	2 low Acid SU recoveries (55%, 40%)
SF6MW11-011		2,4-Dinitrophenol	UJ	low LCS/LCSD ave recovery (38%); 2 low Acid SU

## QUALIFIED DATA TABLE

				recoveries (55%, 40%)
SF6MW11-011	2-Chlorophenol	UJ	2 low Acid SU recoveries (55%, 40%)	
SF6MW11-011	2-Nitrophenol	UJ	2 low Acid SU recoveries (55%, 40%)	
SF6MW11-011	4,6-Dinitro-2-methylphenol	UJ	2 low Acid SU recoveries (55%, 40%)	
SF6MW11-011	4-Chloro-3-methylphenol	UJ	2 low Acid SU recoveries (55%, 40%)	
SF6MW11-011	4-Nitrophenol	UJ	low LCS/LCSD ave recovery (38%); 2 low Acid SU recoveries (55%, 40%)	
SF6MW11-011	Aniline	UJ	low LCS/LCSD ave recovery (57%)	
SF6MW11-011	Benzaldehyde	UJ	calibration drift (%D= -21)	
SF6MW11-011	Benzidine	UJ	poor calibration fit (%RSD=50), calibration drift (%D= -51), low LCS/LCSD ave recovery (48.5%)	
SF6MW11-011	Benzoic acid	R	extremely low LCS/LCSD ave recovery (8%)	
SF6MW11-011	Bis(2-Ethylhexyl)phthalate	U	laboratory blank contamination (0.000651 J mg/L); equipment blank contamination (0.000925 JB mg/L); field blank contamination (0.000798 JB mg/L); result is between SDL and SQL	
SF6MW11-011	Caprolactam	UJ	low LCS/LCSD ave recovery (28%)	
SF6MW11-011	Di-n-octyl phthalate	UJ	poor calibration fit (%RSD=17)	
SF6MW11-011	Hexachlorocyclopentadiene	UJ	low LCS/LCSD ave recovery (55%)	
SF6MW11-011	Hexachloroethane	UJ	low LCS/LCSD ave recovery (59%)	
SF6MW11-011	m,p-Cresol	UJ	low LCS/LCSD ave recovery (58%); 2 low Acid SU recoveries (55%, 40%)	
SF6MW11-011	n-Nitrosodimethylamine	UJ	poor calibration fit (%RSD=28), calibration drift (%D= -31), low LCS/LCSD ave recovery (24%)	
SF6MW11-011	o-Cresol	UJ	low LCS/LCSD ave recovery (59%); 2 low Acid SU recoveries (55%, 40%)	
SF6MW11-011	Pentachlorophenol	UJ	2 low Acid SU recoveries (55%, 40%)	
SF6MW11-011	Phenol	UJ	low LCS/LCSD ave recovery (31.5%); 2 low Acid SU recoveries (55%, 40%)	
SF6MW11-011	Pyridine	UJ	poor calibration fit (%RSD=24), calibration drift (%D= -48), low LCS/LCSD ave recovery (19.5%)	
SF7MW12-012	total Aluminum	J	result is between SDL and SQL	
SF7MW12-012	total Antimony	J	result is between SDL and SQL	
SF7MW12-012	total Cobalt	J	result is between SDL and SQL	
SF7MW12-012	total Molybdenum	J	result is between SDL and SQL	
SF7MW12-012	total Nickel	J	result is between SDL and SQL	
SF7MW12-012	total Silver	J	result is between SDL and SQL	
SF7MW12-012	total Titanium	J	result is between SDL and SQL	
SF7MW12-012	Chromium VI	UJ	low MS recovery (62%)	
SF7MW12-012	4,4'-DDT	UJ	calibration drift column 1 (%D= -21), calibration drift column 2 (%D= -24)	
SF7MW12-012	gamma-BHC (Lindane)	U	equipment blank contamination (0.0000731 mg/L); field blank contamination (0.0000593 mg/L); result is between SDL and SQL	
SF7MW12-012	Acetone	U	equipment blank contamination (0.015 J mg/L); trip blank contamination (0.0033 JB mg/L); result is between SDL and SQL	
SF7MW12-012	Acrolein	UJ	low instrument response (low RRF); elevate SDL for NDs 15x (GW)	
SF7MW12-012	Chloroethane	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (GW)	
SF7MW12-012	Naphthalene	U	laboratory blank contamination (0.00106 J mg/L); result is between SDL and SQL	
SF7MW12-012	n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (SW/GW) or 50x (Sed)	
SF7MW12-012	tert-Butyl methyl ether (MTBE)	J	result is between SDL and SQL	
SF7MW12-012	Trichlorotrifluoroethane	UJ	low instrument response (low RRF); elevate SDL for NDs 3x (GW)	

## QUALIFIED DATA TABLE

SF7MW12-012		2,4,5-Trichlorophenol	UJ	2 low Acid SU recoveries (51%, 31%)
SF7MW12-012		2,4,6-Trichlorophenol	UJ	2 low Acid SU recoveries (51%, 31%)
SF7MW12-012		2,4-Dichlorophenol	UJ	2 low Acid SU recoveries (51%, 31%)
SF7MW12-012		2,4-Dimethylphenol	UJ	2 low Acid SU recoveries (51%, 31%)
SF7MW12-012		2,4-Dinitrophenol	UJ	low LCS/LCSD ave recovery (38%); 2 low Acid SU recoveries (51%, 31%)
SF7MW12-012		2-Chlorophenol	UJ	2 low Acid SU recoveries (51%, 31%)
SF7MW12-012		2-Nitrophenol	UJ	2 low Acid SU recoveries (51%, 31%)
SF7MW12-012		4,6-Dinitro-2-methylphenol	UJ	2 low Acid SU recoveries (51%, 31%)
SF7MW12-012		4-Chloro-3-methylphenol	UJ	2 low Acid SU recoveries (51%, 31%)
SF7MW12-012		4-Nitrophenol	UJ	low LCS/LCSD ave recovery (38%); 2 low Acid SU recoveries (51%, 31%)
SF7MW12-012		Aniline	UJ	low LCS/LCSD ave recovery (57%)
SF7MW12-012		Benzaldehyde	UJ	calibration drift (%D= -21)
SF7MW12-012		Benzidine	UJ	poor calibration fit (%RSD=50), calibration drift (%D= -51), low LCS/LCSD ave recovery (48.5%)
SF7MW12-012		Benzoic acid	J	result is between SDL and SQL, extremely low LCS/LCSD ave recovery (8%), poor LCS/LCSD precision (141%)
SF7MW12-012		Bis(2-Ethylhexyl)phthalate	U	laboratory blank contamination (0.000651 J mg/L); equipment blank contamination (0.000925 JB mg/L); field blank contamination (0.000798 JB mg/L); result is between SDL and SQL
SF7MW12-012		Caprolactam	UJ	low LCS/LCSD ave recovery (28%)
SF7MW12-012		Di-n-butyl phthalate	U	field blank contamination (0.000978 J mg/L); result is between SDL and SQL
SF7MW12-012		Di-n-octyl phthalate	UJ	poor calibration fit (%RSD=17)
SF7MW12-012		Hexachlorocyclopentadiene	UJ	low LCS/LCSD ave recovery (55%)
SF7MW12-012		Hexachloroethane	UJ	low LCS/LCSD ave recovery (59%)
SF7MW12-012		m,p-Cresol	UJ	low LCS/LCSD ave recovery (58%); 2 low Acid SU recoveries (51%, 31%)
SF7MW12-012		n-Nitrosodimethylamine	UJ	poor calibration fit (%RSD=28), calibration drift (%D= -31), low LCS/LCSD ave recovery (24%)
SF7MW12-012		o-Cresol	UJ	low LCS/LCSD ave recovery (59%); 2 low Acid SU recoveries (51%, 31%)
SF7MW12-012		Pentachlorophenol	UJ	2 low Acid SU recoveries (51%, 31%)
SF7MW12-012		Phenol	UJ	low LCS/LCSD ave recovery (31.5%); 2 low Acid SU recoveries (51%, 31%)
SF7MW12-012		Pyridine	UJ	poor calibration fit (%RSD=24), calibration drift (%D= -48), low LCS/LCSD ave recovery (19.5%)
SH7MW14-014	total	Aluminum	J	result is between SDL and SQL
SH7MW14-014	total	Cobalt	J	result is between SDL and SQL
SH7MW14-014	total	Nickel	J	result is between SDL and SQL
SH7MW14-014	total	Silver	J	result is between SDL and SQL
SH7MW14-014	total	Titanium	J	result is between SDL and SQL
SH7MW14-014	total	Vanadium	U	equipment blank contamination (0.0038 B mg/L); field blank contamination (0.0036 B mg/L); result is between SDL and SQL
SH7MW14-014		Chromium VI	UJ	low MS recovery (62%)
SH7MW14-014	total	Mercury	U	laboratory blank contamination (0.00009 B mg/L); result is between SDL and SQL
SH7MW14-014		Aroclor-1016	UJ	calibration drift (%D= -19), calibration drift (%D= -20), low SU recovery (46%)
SH7MW14-014		Aroclor-1221	UJ	low SU recovery (46%)
SH7MW14-014		Aroclor-1232	UJ	low SU recovery (46%)
SH7MW14-014		Aroclor-1242	UJ	low SU recovery (46%)
SH7MW14-014		Aroclor-1248	UJ	low SU recovery (46%)
SH7MW14-014		Aroclor-1254	UJ	low SU recovery (46%)
SH7MW14-014		Aroclor-1260	UJ	low SU recovery (46%)

## QUALIFIED DATA TABLE

SH7MW14-014		Acrolein	UJ	low instrument response (low RRF); elevate SDL for NDs 15x (GW)
SH7MW14-014		Chloroethane	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (GW)
SH7MW14-014		n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (SW/GW) or 50x (Sed)
SH7MW14-014		Trichlorotrifluoroethane	UJ	low instrument response (low RRF); elevate SDL for NDs 3x (GW)
SH7MW14-014		2,4,5-Trichlorophenol	UJ	2 low Acid SU recoveries (54%, 36%)
SH7MW14-014		2,4,6-Trichlorophenol	UJ	2 low Acid SU recoveries (54%, 36%)
SH7MW14-014		2,4-Dichlorophenol	UJ	2 low Acid SU recoveries (54%, 36%)
SH7MW14-014		2,4-Dimethylphenol	UJ	2 low Acid SU recoveries (54%, 36%)
SH7MW14-014		2,4-Dinitrophenol	UJ	low LCS/LCSD ave recovery (38%); 2 low Acid SU recoveries (54%, 36%)
SH7MW14-014		2-Chlorophenol	UJ	2 low Acid SU recoveries (54%, 36%)
SH7MW14-014		2-Nitrophenol	UJ	2 low Acid SU recoveries (54%, 36%)
SH7MW14-014		4,6-Dinitro-2-methylphenol	UJ	2 low Acid SU recoveries (54%, 36%)
SH7MW14-014		4-Chloro-3-methylphenol	UJ	2 low Acid SU recoveries (54%, 36%)
SH7MW14-014		4-Nitrophenol	UJ	low LCS/LCSD ave recovery (38%); 2 low Acid SU recoveries (54%, 36%)
SH7MW14-014		Aniline	UJ	low LCS/LCSD ave recovery (57%)
SH7MW14-014		Benzaldehyde	UJ	calibration drift (%D= -21)
SH7MW14-014		Benzidine	UJ	poor calibration fit (%RSD=50), calibration drift (%D= -51), low LCS/LCSD ave recovery (48.5%)
SH7MW14-014		Benzoic acid	R	extremely low LCS/LCSD ave recovery (8%)
SH7MW14-014		Bis(2-Ethylhexyl)phthalate	U	laboratory blank contamination (0.000651 J mg/L); equipment blank contamination (0.000925 JB mg/L); field blank contamination (0.000798 JB mg/L); result is between SDL and SQL
SH7MW14-014		Caprolactam	UJ	low LCS/LCSD ave recovery (28%)
SH7MW14-014		Di-n-octyl phthalate	UJ	poor calibration fit (%RSD=17)
SH7MW14-014		Hexachlorocyclopentadiene	UJ	low LCS/LCSD ave recovery (55%)
SH7MW14-014		Hexachloroethane	UJ	low LCS/LCSD ave recovery (59%)
SH7MW14-014		m,p-Cresol	UJ	low LCS/LCSD ave recovery (58%); 2 low Acid SU recoveries (54%, 36%)
SH7MW14-014		n-Nitrosodimethylamine	UJ	poor calibration fit (%RSD=28), calibration drift (%D= -31), low LCS/LCSD ave recovery (24%)
SH7MW14-014		o-Cresol	UJ	low LCS/LCSD ave recovery (59%); 2 low Acid SU recoveries (54%, 36%)
SH7MW14-014		Pentachlorophenol	UJ	2 low Acid SU recoveries (54%, 36%)
SH7MW14-014		Phenol	UJ	low LCS/LCSD ave recovery (31.5%); 2 low Acid SU recoveries (54%, 36%)
SH7MW14-014		Pyridine	UJ	poor calibration fit (%RSD=24), calibration drift (%D= -48), low LCS/LCSD ave recovery (19.5%)
SJ7MW16-016	total	Cobalt	J	result is between SDL and SQL
SJ7MW16-016	total	Nickel	J	result is between SDL and SQL
SJ7MW16-016	total	Silver	J	result is between SDL and SQL
SJ7MW16-016	total	Titanium	J	result is between SDL and SQL
SJ7MW16-016	total	Vanadium	U	equipment blank contamination (0.0038 B mg/L); field blank contamination (0.0036 B mg/L); result is between SDL and SQL
SJ7MW16-016		Chromium VI	UJ	low MS recovery (62%)
SJ7MW16-016		Aroclor-1016	UJ	calibration drift (%D= -19), calibration drift (%D= -20), low SU recovery (54%)
SJ7MW16-016		Aroclor-1221	UJ	low SU recovery (54%)
SJ7MW16-016		Aroclor-1232	UJ	low SU recovery (54%)
SJ7MW16-016		Aroclor-1242	UJ	low SU recovery (54%)
SJ7MW16-016		Aroclor-1248	UJ	low SU recovery (54%)

## QUALIFIED DATA TABLE

SJ7MW16-016	Aroclor-1254	UJ	low SU recovery (54%)
SJ7MW16-016	Aroclor-1260	UJ	low SU recovery (54%)
SJ7MW16-016	Acetone	U	equipment blank contamination (0.015 J mg/L); trip blank contamination (0.0033 JB mg/L); result is between SDL and SQL
SJ7MW16-016	Acrolein	UJ	low instrument response (low RRF); elevate SDL for NDs 15x (GW)
SJ7MW16-016	Chloroethane	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (GW)
SJ7MW16-016	n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (SW/GW) or 50x (Sed)
SJ7MW16-016	Trichlorotrifluoroethane	UJ	low instrument response (low RRF); elevate SDL for NDs 3x (GW)
SJ7MW16-016	2,4,5-Trichlorophenol	UJ	2 low Acid SU recoveries (50%, 32%)
SJ7MW16-016	2,4,6-Trichlorophenol	UJ	2 low Acid SU recoveries (50%, 32%)
SJ7MW16-016	2,4-Dichlorophenol	UJ	2 low Acid SU recoveries (50%, 32%)
SJ7MW16-016	2,4-Dimethylphenol	UJ	2 low Acid SU recoveries (50%, 32%)
SJ7MW16-016	2,4-Dinitrophenol	UJ	low LCS/LCSD ave recovery (38%); 2 low Acid SU recoveries (50%, 32%)
SJ7MW16-016	2-Chlorophenol	UJ	2 low Acid SU recoveries (50%, 32%)
SJ7MW16-016	2-Nitrophenol	UJ	2 low Acid SU recoveries (50%, 32%)
SJ7MW16-016	4,6-Dinitro-2-methylphenol	UJ	2 low Acid SU recoveries (50%, 32%)
SJ7MW16-016	4-Chloro-3-methylphenol	UJ	2 low Acid SU recoveries (50%, 32%)
SJ7MW16-016	4-Nitrophenol	UJ	low LCS/LCSD ave recovery (38%); 2 low Acid SU recoveries (50%, 32%)
SJ7MW16-016	Aniline	UJ	low LCS/LCSD ave recovery (57%)
SJ7MW16-016	Benzaldehyde	UJ	calibration drift (%D= -21)
SJ7MW16-016	Benzidine	UJ	poor calibration fit (%RSD=50), calibration drift (%D= -51), low LCS/LCSD ave recovery (48.5%)
SJ7MW16-016	Benzoic acid	R	extremely low LCS/LCSD ave recovery (8%)
SJ7MW16-016	Bis(2-Ethylhexyl)phthalate	U	laboratory blank contamination (0.000651 J mg/L); equipment blank contamination (0.000925 JB mg/L); field blank contamination (0.000798 JB mg/L); result is between SDL and SQL
SJ7MW16-016	Caprolactam	UJ	low LCS/LCSD ave recovery (28%)
SJ7MW16-016	Di-n-octyl phthalate	UJ	poor calibration fit (%RSD=17)
SJ7MW16-016	Hexachlorocyclopentadiene	UJ	low LCS/LCSD ave recovery (55%)
SJ7MW16-016	Hexachloroethane	UJ	low LCS/LCSD ave recovery (59%)
SJ7MW16-016	m,p-Cresol	UJ	low LCS/LCSD ave recovery (58%); 2 low Acid SU recoveries (50%, 32%)
SJ7MW16-016	n-Nitrosodimethylamine	UJ	poor calibration fit (%RSD=28), calibration drift (%D= -31), low LCS/LCSD ave recovery (24%)
SJ7MW16-016	o-Cresol	UJ	low LCS/LCSD ave recovery (59%); 2 low Acid SU recoveries (50%, 32%)
SJ7MW16-016	Pentachlorophenol	UJ	2 low Acid SU recoveries (50%, 32%)
SJ7MW16-016	Phenol	UJ	low LCS/LCSD ave recovery (31.5%); 2 low Acid SU recoveries (50%, 32%)
SJ7MW16-016	Pyridine	UJ	poor calibration fit (%RSD=24), calibration drift (%D= -48), low LCS/LCSD ave recovery (19.5%)

## ATTACHMENT 1

Sample_ID	Lab_Sample_ID	Test_type_code	Analytical_Method	Total_or_dissolved	Matrix	Parameter	Valid_qualifier	Result_type_code	Prep_date	Prep_time	Analysis_Date	Analysis_Time	QC_comment	QC_Batch
EB-500	20608010516	EQBK	SW6010B	total	W	Barium	U to RRs < 5 x BlankEquivConc (none)	TRG	8/1/2006	14:05	8/2/2006	17:00	equipment blank contamination (0.0014 B mg/L)	329293
EB-501	20608010507	EQBK	SW6010B	total	W	Barium	U to RRs < 5 x BlankEquivConc (none)	TRG	8/1/2006	14:05	8/2/2006	16:54	equipment blank contamination (0.00057 B mg/L)	329293
MB for HBN 329188 [DIGM/12332]	396294	LB	SW6010B	total	W	Boron	U to RRs < 5 x BlankEquivConc (none)	TRG	8/1/2006	14:05	8/2/2006	13:27	laboratory blank contamination (0.013 B mg/L)	329293
EB-500	20608010516	EQBK	SW6010B	total	W	Boron	U to RRs < 5 x BlankEquivConc (none)	TRG	8/1/2006	14:05	8/2/2006	17:00	equipment blank contamination (0.027 B mg/L)	329293
EB-501	20608010507	EQBK	SW6010B	total	W	Boron	U to RRs < 5 x BlankEquivConc (none)	TRG	8/1/2006	14:05	8/2/2006	16:54	equipment blank contamination (0.03 B mg/L)	329293
FB-500	20608010505	FLDBK	SW6010B	total	W	Boron	U to RRs < 5 x BlankEquivConc (none)	TRG	8/1/2006	14:05	8/2/2006	17:20	field blank contamination (0.028 B mg/L)	329293
FB-501	20608010509	FLDBK	SW6010B	total	W	Boron	U to RRs < 5 x BlankEquivConc (none)	TRG	8/1/2006	14:05	8/2/2006	17:27	field blank contamination (0.021 B mg/L)	329293
EB-500	20608010516	EQBK	SW6010B	total	W	Cadmium	U to RRs < 5 x BlankEquivConc (none)	TRG	8/1/2006	14:05	8/2/2006	17:00	equipment blank contamination (0.00026 B mg/L)	329293
FB-500	20608010505	FLDBK	SW6010B	total	W	Cadmium	U to RRs < 5 x BlankEquivConc (none)	TRG	8/1/2006	14:05	8/2/2006	17:20	field blank contamination (0.00023 B mg/L)	329293
MB for HBN 329188 [DIGM/12332]	396294	LB	SW6010B	total	W	Hardness	U to RRs < 5 x BlankEquivConc (none)	TRG	8/1/2006	14:05	8/2/2006	13:27	laboratory blank contamination (0.28 B mg/L)	329293
SH7MW-14(396211MSD)	396297	MSD	SW6010B	total	W	Hardness	none (waived due to high parent conc)	TRG	8/1/2006	14:05	8/2/2006	13:52	high MS/MSD ave recovery (556.5%)	329293
EB-500	20608010516	EQBK	SW6010B	total	W	Hardness	U to RRs < 5 x BlankEquivConc (none)	TRG	8/1/2006	14:05	8/2/2006	17:00	equipment blank contamination (2.01 mg/L)	329293
EB-501	20608010507	EQBK	SW6010B	total	W	Hardness	U to RRs < 5 x BlankEquivConc (none)	TRG	8/1/2006	14:05	8/2/2006	16:54	equipment blank contamination (1.41 mg/L)	329293
FB-500	20608010505	FLDBK	SW6010B	total	W	Hardness	U to RRs < 5 x BlankEquivConc (none)	TRG	8/1/2006	14:05	8/2/2006	17:20	field blank contamination (0.41 B mg/L)	329293
FB-501	20608010509	FLDBK	SW6010B	total	W	Hardness	U to RRs < 5 x BlankEquivConc (none)	TRG	8/1/2006	14:05	8/2/2006	17:27	field blank contamination (0.45 B mg/L)	329293
EB-501	20608010507	EQBK	SW6010B	total	W	Lead	U to RRs < 5 x BlankEquivConc (none)	TRG	8/1/2006	14:05	8/2/2006	16:54	equipment blank contamination (0.0039 B mg/L)	329293
SH7MW-14(396211MSD)	396297	MSD	SW6010B	total	W	Lithium	none (waived due to high parent conc)	TRG	8/1/2006	14:05	8/2/2006	13:52	high MS/MSD ave recovery (309.5%)	329293
EB-500	20608010516	EQBK	SW6010B	total	W	Manganese	U to RRs < 5 x BlankEquivConc (none)	TRG	8/1/2006	14:05	8/2/2006	17:00	equipment blank contamination (0.0058 B mg/L)	329293
EB-501	20608010507	EQBK	SW6010B	total	W	Manganese	U to RRs < 5 x BlankEquivConc (none)	TRG	8/1/2006	14:05	8/2/2006	16:54	equipment blank contamination (0.003 B mg/L)	329293

## ATTACHMENT 1

FB-501	20608010509	FLDBK	SW6010B	total	W	Manganese	U to RRs < 5 x BlankEquivConc (none)	TRG	8/1/2006	14:05	8/2/2006	17:27	field blank contamination (0.0017 B mg/L)	329293
SJ7MW-14(396211MSD)	396297	MSD	SW6010B	total	W	Strontium	none (waived due to high parent conc)	TRG	8/1/2006	14:05	8/2/2006	21:09	high MS/MSD ave recovery (220%)	329293
EB-500	20608010516	EQBK	SW6010B	total	W	Strontium	U to RRs < 5 x BlankEquivConc (none)	TRG	8/1/2006	14:05	8/2/2006	17:00	equipment blank contamination (0.0031 B mg/L)	329293
EB-501	20608010507	EQBK	SW6010B	total	W	Strontium	U to RRs < 5 x BlankEquivConc (none)	TRG	8/1/2006	14:05	8/2/2006	16:54	equipment blank contamination (0.0012 B mg/L)	329293
EB-500	20608010516	EQBK	SW6010B	total	W	Vanadium	U to RRs < 5 x BlankEquivConc	TRG	8/1/2006	14:05	8/2/2006	17:00	equipment blank contamination (0.0036 B mg/L)	329293
EB-501	20608010507	EQBK	SW6010B	total	W	Vanadium	U to RRs < 5 x BlankEquivConc	TRG	8/1/2006	14:05	8/2/2006	16:54	equipment blank contamination (0.0038 B mg/L)	329293
FB-500	20608010505	FLDBK	SW6010B	total	W	Vanadium	U to RRs < 5 x BlankEquivConc	TRG	8/1/2006	14:05	8/2/2006	17:20	field blank contamination (0.0031 B mg/L)	329293
FB-501	20608010509	FLDBK	SW6010B	total	W	Vanadium	U to RRs < 5 x BlankEquivConc	TRG	8/1/2006	14:05	8/2/2006	17:27	field blank contamination (0.0036 B mg/L)	329293
MB for HBN 329188 [DIGM/12332]	396294	LB	SW6010B	total	W	Zinc	U to RRs < 5 x BlankEquivConc (none)	TRG	8/1/2006	14:05	8/2/2006	13:27	laboratory blank contamination (0.0085 B mg/L)	329293
EB-500	20608010516	EQBK	SW6010B	total	W	Zinc	U to RRs < 5 x BlankEquivConc (none)	TRG	8/1/2006	14:05	8/2/2006	17:00	equipment blank contamination (0.02 mg/L)	329293
EB-501	20608010507	EQBK	SW6010B	total	W	Zinc	U to RRs < 5 x BlankEquivConc (none)	TRG	8/1/2006	14:05	8/2/2006	16:54	equipment blank contamination (0.027 mg/L)	329293
FB-500	20608010505	FLDBK	SW6010B	total	W	Zinc	U to RRs < 5 x BlankEquivConc (none)	TRG	8/1/2006	14:05	8/2/2006	17:20	field blank contamination (0.0037 B mg/L)	329293
FB-501	20608010509	FLDBK	SW6010B	total	W	Zinc	U to RRs < 5 x BlankEquivConc (none)	TRG	8/1/2006	14:05	8/2/2006	17:27	field blank contamination (0.01 B mg/L)	329293
SJ7MW-16(396212MS)	396264	MS	SW7196A		W	Chromium VI	J- / UJ to RRs/NDs	TRG			8/1/2006	10:54	low MS recovery (62%)	329179
MB for HBN 329189 [DIGM/12333]	396298	LB	SW7470A	total	W	Mercury	U to RRs < 5 x BlankEquivConc	TRG	8/1/2006	14:05	8/2/2006	12:45	laboratory blank contamination (0.00009 B mg/L)	329302
x	2060802sv17a035	CCV1	SW8081A			4,4'-DDD	J+ to RRs (none)	Pest			8/3/06	15:35	calibration drift column 1 (%D= 19)	
x	2060802sv17a035	CCV1	SW8081A			4,4'-DDT	J- / UJ to RRs/NDs	Pest			8/3/06	15:35	calibration drift column 1 (%D= -21)	
x	2060802sv17b035	CCV2	SW8081A			4,4'-DDT	J- / UJ to RRs/NDs	Pest			8/3/06	15:56	calibration drift column 2 (%D= -24)	
EB-500	20608010516	EQBK	SW8081A		W	gamma-BHC (Lindane)	U to RRs < 5 x BlankEquivConc	TRG	8/1/2006	18:30	8/2/2006	19:56	equipment blank contamination (0.0000731 mg/L)	329520
FB-500	20608010505	FLDBK	SW8081A		W	gamma-BHC (Lindane)	U to RRs < 5 x BlankEquivConc	TRG	8/1/2006	18:30	8/2/2006	17:08	field blank contamination (0.0000593 mg/L)	329520

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SH7MW14-014	20608010501	SMP	SW8081A		W	Decachlorobiphenyl	none (only one of multiple surrogates is deficient)	SUR	8/1/2006	18:30	8/2/2006	16:12	low SU recovery (46%)	329520
SJ7MW16-016	20608010502	SMP	SW8081A		W	Decachlorobiphenyl	none (only one of multiple surrogates is deficient)	SUR	8/1/2006	18:30	8/2/2006	16:30	low SU recovery (54%)	329520
SD3PZ08-008	20608010504	SMP	SW8081A		W	Decachlorobiphenyl	none (only one of multiple surrogates is deficient)	SUR	8/1/2006	18:30	8/2/2006	16:49	low SU recovery (55%)	329520
SF6MW11-011	20608010510	SMP	SW8081A		W	Decachlorobiphenyl	none (only one of multiple surrogates is deficient)	SUR	8/1/2006	18:30	8/2/2006	18:04	low SU recovery (55%)	329520
ND3PZ04-004	20608010515	SMP	SW8081A		W	Decachlorobiphenyl	none (only one of multiple surrogates is deficient)	SUR	8/1/2006	18:30	8/2/2006	18:41	low SU recovery (47%)	329520
x	2060802sv16a016	CCV1	SW8082			AR 1016-Peak1	J- / UJ to RRs/NDs	Aro			8/2/06	15:34	calibration drift (%D= -19)	
x	2060802sv16a029	CCV1	SW8082			AR 1016-Peak1	J- / UJ to RRs/NDs	Aro			8/2/06	19:37	calibration drift (%D= -20)	
SH7MW14-014	20608010501	SMP	SW8082		W	Decachlorobiphenyl	J- / UJ to RRs/NDs	SUR	8/1/2006	18:30	8/2/2006	16:12	low SU recovery (46%)	329522
SJ7MW16-016	20608010502	SMP	SW8082		W	Decachlorobiphenyl	J- / UJ to RRs/NDs	SUR	8/1/2006	18:30	8/2/2006	16:30	low SU recovery (54%)	329522
SD3PZ08-008	20608010504	SMP	SW8082		W	Decachlorobiphenyl	J- / UJ to RRs/NDs	SUR	8/1/2006	18:30	8/2/2006	16:49	low SU recovery (55%)	329522
SF6MW11-011	20608010510	SMP	SW8082		W	Decachlorobiphenyl	J- / UJ to RRs/NDs	SUR	8/1/2006	18:30	8/2/2006	18:04	low SU recovery (55%)	329522
ND3PZ04-004	20608010515	SMP	SW8082		W	Decachlorobiphenyl	J- / UJ to RRs/NDs	SUR	8/1/2006	18:30	8/2/2006	18:41	low SU recovery (47%)	329522
EB-500	20608010516	EQBK	SW8260B		W	Acetone	U to RRs < 10 x BlankEquivConc	TRG			8/2/2006	17:01	equipment blank contamination (0.015 J mg/L)	329238
EB-501	20608010507	EQBK	SW8260B		W	Acetone	U to RRs < 10 x BlankEquivConc	TRG			8/2/2006	15:45	equipment blank contamination (0.00481 J mg/L)	329238
TB-1142	20608010514	TRIPBK	SW8260B		W	Acetone	U to RRs < 10 x BlankEquivConc	TRG			8/2/2006	16:36	trip blank contamination (0.00202 J mg/L)	329238
TB-1145	20608010508	TRIPBK	SW8260B		W	Acetone	U to RRs < 10 x BlankEquivConc	TRG			8/3/2006	23:59	trip blank contamination (0.0033 JB mg/L)	329509
TB-COC1201	20608010517	TRIPBK	SW8260B		W	Acetone	U to RRs < 10 x BlankEquivConc	TRG			8/2/2006	17:27	trip blank contamination (0.0025 J mg/L)	329238
x	G6793	ICAL1	SW8260B			Acrolein	J / UJ to RRs/NDs	VOC			8/1/06	13:40	low instrument response (low RRF); elevate SDL for NDs 15x (GW)	
EB-500	20608010516	EQBK	SW8260B		W	Carbon disulfide	U to RRs < 5 x BlankEquivConc (none)	TRG			8/2/2006	17:01	equipment blank contamination (0.00129 J mg/L)	329238
EB-501	20608010507	EQBK	SW8260B		W	Carbon disulfide	U to RRs < 5 x BlankEquivConc (none)	TRG			8/2/2006	15:45	equipment blank contamination (0.00109 J mg/L)	329238

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x	G6793	ICAL1	SW8260B		Chloroethane	J / UJ to RRs/NDs	VOC			8/1/06	13:40	low instrument response (low RRF); elevate SDL for NDs 2x (GW)	
LCSD for HBN 329608 [MSV/8812]	398014	LCSD	SW8260B	W	Chloroethane	J+ to RRs (none)	TRG			8/5/2006	7:47	high LCS/LCSD ave recovery (188.5%)	329608
SH7MW-14(396211MSD)	398151	MSD	SW8260B	W	Chloroethane	J+ to RRs (none)	TRG			8/5/2006	12:27	high MS/MSD ave recovery (180%)	329608
EB-500	20608010516	EQBK	SW8260B	W	Methylene chloride	U to RRs < 10 x BlankEquivConc (none)	TRG			8/2/2006	17:01	equipment blank contamination (0.00499 J mg/L)	329238
EB-501	20608010507	EQBK	SW8260B	W	Methylene chloride	U to RRs < 10 x BlankEquivConc (none)	TRG			8/2/2006	15:45	equipment blank contamination (0.00193 J mg/L)	329238
FB-501	20608010509	FLDBK	SW8260B	W	Methylene chloride	U to RRs < 10 x BlankEquivConc (none)	TRG			8/3/2006	23:08	field blank contamination (0.00257 JB mg/L)	329509
TB-1139	20608010503	TRIPBK	SW8260B	W	Methylene chloride	U to RRs < 10 x BlankEquivConc (none)	TRG			8/3/2006	23:34	trip blank contamination (0.00254 JB mg/L)	329509
TB-1142	20608010514	TRIPBK	SW8260B	W	Methylene chloride	U to RRs < 10 x BlankEquivConc (none)	TRG			8/2/2006	16:36	trip blank contamination (0.00495 J mg/L)	329238
TB-1144	20608010511	TRIPBK	SW8260B	W	Methylene chloride	U to RRs < 10 x BlankEquivConc (none)	TRG			8/4/2006	0:24	trip blank contamination (0.000672 JB mg/L)	329509
TB-1145	20608010508	TRIPBK	SW8260B	W	Methylene chloride	U to RRs < 10 x BlankEquivConc (none)	TRG			8/3/2006	23:59	trip blank contamination (0.00228 JB mg/L)	329509
TB-COC1201	20608010517	TRIPBK	SW8260B	W	Methylene chloride	U to RRs < 10 x BlankEquivConc (none)	TRG			8/2/2006	17:27	trip blank contamination (0.00558 J mg/L)	329238
MB for HBN 329608 [MSV/8812]	398012	LB	SW8260B	W	Naphthalene	U to RRs < 5 x BlankEquivConc	TRG			8/5/2006	8:14	laboratory blank contamination (0.00106 J mg/L)	329608
x	G5023	ICAL2	SW8260B		n-Butyl alcohol	J / UJ to RRs/NDs	App9			6/14/06	7:30	low instrument response (low RRF); elevate SDL for NDs 2x (SW/GW) or 50x (Sed)	
x	G6793	ICAL1	SW8260B		Trichlorotrifluoroethane	J / UJ to RRs/NDs	VOC			8/1/06	13:40	low instrument response (low RRF); elevate SDL for NDs 3x (GW)	
LCSD for HBN 329180 [EXTO/1436]	396274	LCSD	SW8270C	W	4-Nitrophenol	J- / UJ to RRs/NDs	TRG	8/2/2006	10:00	8/4/2006	10:41	low LCS/LCSD ave recovery (38%)	329541
FB-500	20608010505	FLDBK	SW8270C	W	Acetophenone	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	10:00	8/4/2006	11:39	field blank contamination (0.00503 J mg/L)	329541
EB-501	20608010507	EQBK	SW8270C	W	Acetophenone	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	10:00	8/4/2006	11:53	equipment blank contamination (0.000778 J mg/L)	329541
FB-501	20608010509	FLDBK	SW8270C	W	Acetophenone	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	10:00	8/4/2006	12:08	field blank contamination (0.00086 J mg/L)	329541
EB-500	20608010516	EQBK	SW8270C	W	Acetophenone	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	10:00	8/4/2006	13:20	equipment blank contamination (0.00131 J mg/L)	329541
LCSD for HBN 329180 [EXTO/1436]	396274	LCSD	SW8270C	W	Aniline	J- / UJ to RRs/NDs	TRG	8/2/2006	10:00	8/4/2006	10:41	low LCS/LCSD ave recovery (57%)	329541

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LCSD for HBN 329180 [EXTO/1436]	396274	LCSD	SW8270C		W	Benzaldehyde	J+ to RRs (none)	TRG	8/2/2006	10:00	8/4/2006	10:41	high LCS/LCSD ave recovery (220%)	329541
EB-501	20608010507	EQBK	SW8270C		W	Benzaldehyde	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	10:00	8/4/2006	11:53	equipment blank contamination (0.00409 J mg/L)	329541
FB-501	20608010509	FLDBK	SW8270C		W	Benzaldehyde	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	10:00	8/4/2006	12:08	field blank contamination (0.00407 J mg/L)	329541
EB-500	20608010516	EQBK	SW8270C		W	Benzaldehyde	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	10:00	8/4/2006	13:20	equipment blank contamination (0.00381 J mg/L)	329541
x	D0967	CCV1	SW8270C			Benzaldehyde	J- / UJ to RRs/NDs	SVOC			8/4/06	7:36	calibration drift (%D= -21)	
LCSD for HBN 329180 [EXTO/1436]	396274	LCSD	SW8270C		W	Benzidine	J- / UJ to RRs/NDs	TRG	8/2/2006	10:00	8/4/2006	10:41	low LCS/LCSD ave recovery (48.5%)	329541
LCSD for HBN 329180 [EXTO/1436]	396274	LCSD	SW8270C		W	Benzidine	J to RRs (none)	TRG	8/2/2006	10:00	8/4/2006	10:41	poor LCS/LCSD precision (43%)	329541
x	D0930	ICAL1	SW8270C			Benzidine	J / UJ to RRs/NDs	SVOC			8/3/06	11:36	poor calibration fit (%RSD=50)	
x	D0967	CCV1	SW8270C			Benzidine	J- / UJ to RRs/NDs	SVOC			8/4/06	7:36	calibration drift (%D= -51)	
EB-501	20608010507	EQBK	SW8270C		W	Benzo(b)fluoranthene	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	10:00	8/4/2006	11:53	equipment blank contamination (0.00142 J mg/L)	329541
EB-501	20608010507	EQBK	SW8270C		W	Benzo(g,h,i)perylene	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	10:00	8/4/2006	11:53	equipment blank contamination (0.00148 J mg/L)	329541
LCSD for HBN 329180 [EXTO/1436]	396274	LCSD	SW8270C		W	Benzoic acid	J- / R to RRs/NDs	TRG	8/2/2006	10:00	8/4/2006	10:41	extremely low LCS/LCSD ave recovery (8%)	329541
LCSD for HBN 329180 [EXTO/1436]	396274	LCSD	SW8270C		W	Benzoic acid	J to RRs	TRG	8/2/2006	10:00	8/4/2006	10:41	poor LCS/LCSD precision (141%)	329541
FB-500	20608010505	FLDBK	SW8270C		W	Benzyl alcohol	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	10:00	8/4/2006	11:39	field blank contamination (0.000733 J mg/L)	329541
MB for HBN 329180 [EXTO/14362]	396272	LB	SW8270C		W	Bis(2-Ethylhexyl)phthalate	U to RRs < 10 x BlankEquivConc	TRG	8/2/2006	10:00	8/4/2006	9:59	laboratory blank contamination (0.000651 J mg/L)	329541
EB-501	20608010507	EQBK	SW8270C		W	Bis(2-Ethylhexyl)phthalate	U to RRs < 10 x BlankEquivConc	TRG	8/2/2006	10:00	8/4/2006	11:53	equipment blank contamination (0.000925 JB mg/L)	329541
EB-500	20608010516	EQBK	SW8270C		W	Bis(2-Ethylhexyl)phthalate	U to RRs < 10 x BlankEquivConc	TRG	8/2/2006	10:00	8/4/2006	13:20	equipment blank contamination (0.000743 JB mg/L)	329541
FB-501	20608010509	FLDBK	SW8270C		W	Bis(2-Ethylhexyl)phthalate	U to RRs < 10 x BlankEquivConc	TRG	8/2/2006	10:00	8/4/2006	12:08	field blank contamination (0.000798 JB mg/L)	329541
FB-500	20608010505	FLDBK	SW8270C		W	Butyl benzyl phthalate	U to RRs < 10 x BlankEquivConc (none)	TRG	8/2/2006	10:00	8/4/2006	11:39	field blank contamination (0.015 mg/L)	329541
EB-500	20608010516	EQBK	SW8270C		W	Butyl benzyl phthalate	U to RRs < 10 x BlankEquivConc (none)	TRG	8/2/2006	10:00	8/4/2006	13:20	equipment blank contamination (0.00361 J mg/L)	329541

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LCSD for HBN 329180 [EXTO/1436]	396274	LCSD	SW8270C		W	Caprolactam	J- / UJ to RRs/NDs	TRG	8/2/2006	10:00	8/4/2006	10:41	low LCS/LCSD ave recovery (28%)	329541	
EB-501	20608010507	EQBK	SW8270C		W	Caprolactam	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	10:00	8/4/2006	11:53	equipment blank contamination (0.00102 J mg/L)	329541	
EB-500	20608010516	EQBK	SW8270C		W	Caprolactam	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	10:00	8/4/2006	13:20	equipment blank contamination (0.000676 J mg/L)	329541	
EB-501	20608010507	EQBK	SW8270C		W	Dibenz(a,h)anthracene	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	10:00	8/4/2006	11:53	equipment blank contamination (0.0029 J mg/L)	329541	
FB-500	20608010505	FLDBK	SW8270C		W	Diethyl phthalate	U to RRs < 10 x BlankEquivConc (none)	TRG	8/2/2006	10:00	8/4/2006	11:39	field blank contamination (0.00228 J mg/L)	329541	
EB-501	20608010507	EQBK	SW8270C		W	Diethyl phthalate	U to RRs < 10 x BlankEquivConc (none)	TRG	8/2/2006	10:00	8/4/2006	11:53	equipment blank contamination (0.000867 J mg/L)	329541	
FB-501	20608010509	FLDBK	SW8270C		W	Diethyl phthalate	U to RRs < 10 x BlankEquivConc (none)	TRG	8/2/2006	10:00	8/4/2006	12:08	field blank contamination (0.000988 J mg/L)	329541	
EB-500	20608010516	EQBK	SW8270C		W	Diethyl phthalate	U to RRs < 10 x BlankEquivConc (none)	TRG	8/2/2006	10:00	8/4/2006	13:20	equipment blank contamination (0.00078 J mg/L)	329541	
FB-500	20608010505	FLDBK	SW8270C		W	Di-n-butyl phthalate	U to RRs < 10 x BlankEquivConc	TRG	8/2/2006	10:00	8/4/2006	11:39	field blank contamination (0.000978 J mg/L)	329541	
x	D0930	ICAL1	SW8270C			Di-n-octylphthalate	J / UJ to RRs/NDs	SVOC				8/3/06	11:36	poor calibration fit (%RSD=17)	
LCSD for HBN 329180 [EXTO/1436]	396274	LCSD	SW8270C		W	Hexachlorocyclopentadiene	J- / UJ to RRs/NDs	TRG	8/2/2006	10:00	8/4/2006	10:41	low LCS/LCSD ave recovery (55%)	329541	
LCSD for HBN 329180 [EXTO/1436]	396274	LCSD	SW8270C		W	Hexachloroethane	J- / UJ to RRs/NDs	TRG	8/2/2006	10:00	8/4/2006	10:41	low LCS/LCSD ave recovery (59%)	329541	
LCSD for HBN 329180 [EXTO/1436]	396274	LCSD	SW8270C		W	m,p-Cresol	J- / UJ to RRs/NDs	TRG	8/2/2006	10:00	8/4/2006	10:41	low LCS/LCSD ave recovery (58%)	329541	
LCSD for HBN 329180 [EXTO/1436]	396274	LCSD	SW8270C		W	n-Nitrosodimethylamine	J- / UJ to RRs/NDs	TRG	8/2/2006	10:00	8/4/2006	10:41	low LCS/LCSD ave recovery (24%)	329541	
LCSD for HBN 329180 [EXTO/1436]	396274	LCSD	SW8270C		W	n-Nitrosodimethylamine	J to RRs (none)	TRG	8/2/2006	10:00	8/4/2006	10:41	poor LCS/LCSD precision (58%)	329541	
x	D0930	ICAL1	SW8270C			n-Nitrosodimethylamine	J / UJ to RRs/NDs	SVOC				8/3/06	11:36	poor calibration fit (%RSD=28)	
x	D0967	CCV1	SW8270C			N-Nitrosodimethylamine	J- / UJ to RRs/NDs	SVOC				8/4/06	7:36	calibration drift (%D= -31)	
LCSD for HBN 329180 [EXTO/1436]	396274	LCSD	SW8270C		W	o-Cresol	J- / UJ to RRs/NDs	TRG	8/2/2006	10:00	8/4/2006	10:41	low LCS/LCSD ave recovery (59%)	329541	
LCSD for HBN 329180 [EXTO/1436]	396274	LCSD	SW8270C		W	Phenol	J- / UJ to RRs/NDs	TRG	8/2/2006	10:00	8/4/2006	10:41	low LCS/LCSD ave recovery (31.5%)	329541	
x	D0930	ICAL1	SW8270C			Pyridine	J / UJ to RRs/NDs	SVOC				8/3/06	11:36	poor calibration fit (%RSD=24)	

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x	D0967	CCV1	SW8270C		Pyridine	J- / UJ to RRs/NDs	SVOC			8/4/06	7:36	calibration drift (%D= -48)	
LCSD for HBN 329180 [EXTO/1436]	396274	LCSD	SW8270C	W	Pyridine	J- / UJ to RRs/NDs	TRG	8/2/2006	10:00	8/4/2006	10:41	low LCS/LCSD ave recovery (19.5%)	329541
SH7MW14-014	20608010501	SMP	SW8270C	W	2-Fluorophenol	J- / UJ to RRs/NDs for Acid (phenolic) analytes	SUR	8/2/2006	10:00	8/4/2006	10:56	low Acid SU recovery (54%)	329541
SH7MW14-014	20608010501	SMP	SW8270C	W	Phenol-d5	J- / UJ to RRs/NDs for Acid (phenolic) analytes	SUR	8/2/2006	10:00	8/4/2006	10:56	low Acid SU recovery (36%)	329541
SJ7MW16-016	20608010502	SMP	SW8270C	W	2-Fluorophenol	J- / UJ to RRs/NDs for Acid (phenolic) analytes	SUR	8/2/2006	10:00	8/4/2006	11:10	low Acid SU recovery (50%)	329541
SJ7MW16-016	20608010502	SMP	SW8270C	W	Phenol-d5	J- / UJ to RRs/NDs for Acid (phenolic) analytes	SUR	8/2/2006	10:00	8/4/2006	11:10	low Acid SU recovery (32%)	329541
SD3PZ08-008	20608010504	SMP	SW8270C	W	2-Fluorophenol	J- / UJ to RRs/NDs for Acid (phenolic) analytes	SUR	8/2/2006	10:00	8/4/2006	11:24	low Acid SU recovery (54%)	329541
SD3PZ08-008	20608010504	SMP	SW8270C	W	Phenol-d5	J- / UJ to RRs/NDs for Acid (phenolic) analytes	SUR	8/2/2006	10:00	8/4/2006	11:24	low Acid SU recovery (46%)	329541
SF6MW11-011	20608010510	SMP	SW8270C	W	2-Fluorophenol	J- / UJ to RRs/NDs for Acid (phenolic) analytes	SUR	8/2/2006	10:00	8/4/2006	12:22	low Acid SU recovery (55%)	329541
SF6MW11-011	20608010510	SMP	SW8270C	W	Phenol-d5	J- / UJ to RRs/NDs for Acid (phenolic) analytes	SUR	8/2/2006	10:00	8/4/2006	12:22	low Acid SU recovery (40%)	329541
SE6MW09-009	20608010512	SMP	SW8270C	W	2-Fluorophenol	J- / UJ to RRs/NDs for Acid (phenolic) analytes	SUR	8/2/2006	10:00	8/4/2006	12:37	low Acid SU recovery (46%)	329541
SE6MW09-009	20608010512	SMP	SW8270C	W	Phenol-d5	J- / UJ to RRs/NDs for Acid (phenolic) analytes	SUR	8/2/2006	10:00	8/4/2006	12:37	low Acid SU recovery (30%)	329541
SF7MW12-012	20608010513	SMP	SW8270C	W	2-Fluorophenol	J- / UJ to RRs/NDs for Acid (phenolic) analytes	SUR	8/2/2006	10:00	8/4/2006	12:51	low Acid SU recovery (51%)	329541
SF7MW12-012	20608010513	SMP	SW8270C	W	Phenol-d5	J- / UJ to RRs/NDs for Acid (phenolic) analytes	SUR	8/2/2006	10:00	8/4/2006	12:51	low Acid SU recovery (31%)	329541
ND3PZ04-004	20608010515	SMP	SW8270C	W	2-Fluorophenol	J- / UJ to RRs/NDs for Acid (phenolic) analytes	SUR	8/2/2006	10:00	8/4/2006	13:05	low Acid SU recovery (56%)	329541
ND3PZ04-004	20608010515	SMP	SW8270C	W	Phenol-d5	J- / UJ to RRs/NDs for Acid (phenolic) analytes	SUR	8/2/2006	10:00	8/4/2006	13:05	low Acid SU recovery (47%)	329541

<b>DATA VALIDATION CHECKLIST</b> (Level III)				
ITEM	Yes	No	NA	Comment Number
Client Name: Pastor, Behling, & Wheeler				Project Number: 1352
Property Location: Gulfco Superfund Site				Project Manager: Eric Pastor
Laboratory: GCAL – Baton Rouge, LA				Laboratory Job No.: 206080203
Reviewer: Taryn Scholz/ Don Flory (QAA, L.L.C.)				Date Checked: 9/26/06
<b>Chain of Custody (COC) and Sample Receipt at Lab</b>				
1. Signed COCs included and seals used?	x			
2. Date and time of sample collection included?	x			2.
3. All samples listed on the COC analyzed for in accordance with the RI/FS Work Plan?		x		3.
4. Field QC sample frequency met project requirements?		x		4.
5. Sample receipt temperature 2-6°C?	x			
6. Samples preserved appropriately?	x			
7. Samples received within 2 days of collection?	x			
8. No problems noted?	x			
<b>Laboratory Report and Data Package</b>				
9. Signed Case Narrative included?	x			
10. No analytical discrepancies noted in case narrative?		x		10.
11. Elevated reporting limits justified?	x			11.
12. MDLs reasonable per DCS?	x			
13. Calibration data acceptable?		x		see attached
14. ICV and CCV recoveries within project control limits?		x		see attached
15. ICB and CCB results <RL (MQL)?	x			
16. Internal standard areas within project control limits?	x			
<b>Laboratory EDD</b>				
17. Field sample IDs included?	x			17.
18. Laboratory sample IDs included?	x			
19. Date of analysis included?	x			
20. Date of sample preparation included?	x			
21. Samples prepared within holding time?	x			
22. Samples analyzed within holding time?	x			
23. Detection limit and quantitation limit included?	x			
24. Project target limits achieved?		x		24.
25. No elevated reporting limits?		x		25.
26. Method references included?	x			
27. Sample matrix included?	x			
28. Sample result units reported correctly?	x			28.
29. Soil/ sediment results corrected for dry-weight?			x	
30. Method blank results <RL (MDL)?		x		see attached
31. Equipment and Trip blank results <RL (MDL)?		x		31. see attached
32. All COIs included in LCS?	x			32.
33. LCS recovery within project control limits?		x		see attached
34. MS/MSD recoveries within project control limits?		x		34. see attached
35. LCS/LCSD RPDs within project control limits?		x		see attached
36. MS/MSD RPDs within project control limits?			x	no MSD
37. Laboratory duplicate RPDs/Diffs within project control limits?		x		see attached
38. Field duplicate RPDs/Diffs within project control limits?	x			
39. Surrogate recoveries within project control limits?		x		see attached
40. Completeness percentage within project limits?		x		40.

Definitions: <b>CCB</b> – Continuing Calibration Blank; <b>CCV</b> – Continuing Calibration Verification; <b>COI</b> – Compounds of Interest; <b>DCS</b> – Detectability Check Sample; <b>ICB</b> – Initial Calibration Blank; <b>ICV</b> – Initial Calibration Verification; <b>LCS</b> – Laboratory Control Sample; <b>LCSD</b> – Laboratory Control Sample Duplicate; <b>MDL</b> – Method Detection Limit; <b>MS/MSD</b> – Matrix Spike/Matrix Spike Duplicate; <b>RL</b> – Reporting Limit; <b>RPD</b> – Relative Percent Difference				
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## COMMENTS

Level IV Check - GC/MS RRF for instrument calibration also included in Level III checks after deficiencies noted in first samples – see attached for deficiencies noted

2. Five TBs have no Collection Date on Chain or in EDD.

3. Hardness reported for all samples except SF5MW10-010. This analyte not required for GW samples, so no further action taken.

4. No MS/MSD collected with these samples. Frequency for all GW sample sets is only 1-to-27 for MS/MSD for SVOC, Pest, PCB. (The lab chose a GW sample to prepare an MS/MSD for internal QC for Metals and VOC.) This is not considered to significantly affect data quality.

10. Issues noted for VOC, SVOC and metals. All are based on laboratory limits, which do not affect flagging for this site except:

VOC – 2CVE not recovered in MS/MSD for batch 330206 (This MS/MSD prepared using a Pond SW sample from the site and was not used to assess data quality for this set of GWs.)

11. Four metals samples diluted due to chemical or physical interference. One VOC sample diluted due to analytes above calibration range.

17. Sample IDs for Lab ID 02, 03, 12 in EDD differ slightly from those on Chain-of-Custody due to correction requested by PBW as follows:

### CORRECTED SAMPLE ID IN EDD (on Chain)

SB4MW07-007 (SB4MW07)

SG2MW13-013 (SG2MW13)

SF5MW10-010 (SF5MW10)

24. Chloride actual MDL of 0.53 mg/L slightly above target of 0.333 mg/L but no PSV for this analyte; Sulfate actual MDL of 1.9 mg/L slightly above target of 1.67 mg/L but no PSV for this analyte; Copper actual MDL (0.003 mg/L) slightly above Target (0.002 mg/L) but below PSV (0.0036 mg/L)

25. Four metals samples diluted 2-5x. One VOC sample diluted 10x.

28. For organics, the SDLs and SQLs are in mg/L as requested for samples logged in after 7/31/06; however, the user should note that the MDLs and MQLs are in ug/L and this is not accounted for in the Prep Factor or Dilution Factor.

31. The GW equipment and field blanks have low levels of contamination for numerous analytes, which (for the organic contaminants) is attributed to the location of the site. Note that, in some cases, these contaminants were not detected in the samples or were also present in the laboratory blanks.

32. All analytes routinely spiked by lab are included as per QAPP. This is every TA except n-Butyl alcohol, Toxaphene, and the 5 middle Aroclors.

34. No MS/MSD collected with this set; The lab prepared a MS/DUP pair using a sample from this set for Metals and Cr(VI). LCS/LCSD reported for other parameters. In the hardcopy report, some MS/MSD are included that are from another site or another sampling event for this site. Only MS/MSD prepared using a sample of the same media (i.e., GW, ICWW SW, Pond SW, ICWW Sediment, OnSite Sediment, or Soil Borings) that was collected at the same time were used to assess data quality for a given set of samples.

40. Low analyte-level completeness for two SVOC poor performers (Benzoic acid and Benzidine)

**SET SUMMARY**  
**Laboratory Job No.: 206080203**

6	Number of Field Samples including Field Duplicates (1)
0	Number of Field MS/MSD Pairs
2	Number of Equipment Rinsate Blanks
2	Number of Field Blanks
5	Number of VOC Trip Blanks
6	Number of Parameters (VOC, SVOC, Pesticides, Aroclors, Metals-Total, Cr(VI)-Total)
200	Number of Target Analytes per Sample
1075	Total Measurements for Field Samples (Only VOC and Cr(VI) requested for one sample; Hardness not reported for one sample)
825	Number of measurements with no validation qualifier (i.e., "none" in EDD)
166	Number of measurements with UJ flag (for various analytes due to low laboratory spike, matrix spike and/or surrogate spike recovery; poor calibration fit and/or negative drift)
14	Number of measurements with UJ flag and an elevated SDL (for 4,6-Dinitro-2-methylphenol, Acrolein, Chloroethane, n-Butyl alcohol, and Trichlorotrifluoroethane due to poor instrument response, i.e., low RRF)
0	Number of measurements with J- flag
38	Number of measurements with J flag (due solely to result being between the SDL and SQL)
1	Number of measurements with J flag (due to result being between the SDL and SQL plus poor calibration fit for one Benzo(a)pyrene result)
0	Number of measurements with J+ flag
31	Number of measurements with U flag (due to blank contamination; analytes affected include Acetone, Arsenic, Butyl benzyl phthalate, Cobalt, Di-n-butyl phthalate, Methylene chloride, Nickel, Selenium, Silver, Thallium, Titanium, and Zinc)
0	Number of measurements with NS flag
0	Number of measurements with R flag
100%	Completeness-to-date on a sample level (percentage of groundwater samples with usable data, project goal 90%)
67%	Completeness-to-date on an analyte level (percentage of groundwater samples with usable data for a specific analyte, project goal 80%) – Benzidine
59%	Completeness-to-date on an analyte level (percentage of groundwater samples with usable data for a specific analyte, project goal 80%) – Benzoic Acid
100%	Completeness-to-date on an analyte level (percentage of groundwater samples with usable data for a specific analyte, project goal 80%) – all other target analytes

Usability: All data suitable as qualified for the intended use. Data for 4,6-Dinitro-2-methylphenol, Acrolein, Chloroethane, n-Butyl alcohol, and Trichlorotrifluoroethane are usable with an elevated reporting limit for the non-detects (as given in the Electronic Data Deliverable). Measurements qualified with a U-flag should be considered not present at the concentration reported.

## QUALIFIED DATA TABLE

Field Sample Identification	Total or dissolved	Analyte	Data Qualifier	Reason for Qualification
ND1PZ03-003		1,1,2,2-Tetrachloroethane	UJ	calibration drift (%D= -24)
ND1PZ03-003		1,1-Dichloroethene	J	result is between SDL and SQL
ND1PZ03-003		1,2,3-Trichloropropane	UJ	calibration drift (%D= -24)
ND1PZ03-003		1,2-Dibromo-3-chloropropane	UJ	calibration drift (%D= -26)
ND1PZ03-003		2-Butanone	UJ	calibration drift (%D= -36), low LCS/LCSD ave recovery (55.5%)
ND1PZ03-003		2-Hexanone	UJ	calibration drift (%D= -30)
ND1PZ03-003		4-Methyl-2-pentanone	UJ	calibration drift (%D= -36)
ND1PZ03-003		Acetone	UJ	calibration drift (%D= -33)
ND1PZ03-003		Acrylonitrile	UJ	calibration drift (%D= -21)
ND1PZ03-003		cis-1,2-Dichloroethene	J	result is between SDL and SQL
ND1PZ03-003		Isopropylbenzene (Cumene)	J	result is between SDL and SQL
ND1PZ03-003		Methyl Acetate	UJ	calibration drift (%D= -24)
ND1PZ03-003		Methylene chloride	U	laboratory blank contamination (0.00143 J mg/L), trip blank contamination (0.000573 J mg/L), result is between SDL and SQL
ND1PZ03-003		n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (GW)
ND1PZ03-003		tert-Butyl methyl ether (MTBE)	UJ	calibration drift (%D= -21)
ND1PZ03-003		Toluene	J	result is between SDL and SQL
ND1PZ03-003		trans-1,4-Dichloro-2-butene	UJ	calibration drift (%D= -26)
NF3PZ06-006	total	Aluminum	J	result is between SDL and SQL
NF3PZ06-006	total	Antimony	J	result is between SDL and SQL
NF3PZ06-006	total	Arsenic	U	laboratory blank contamination (0.0081 B mg/L); poor lab duplicate precision (45 RPD)
NF3PZ06-006	total	Cobalt	U	equipment blank contamination (0.0039 B mg/L), field blank contamination (0.004 B mg/L), result is between SDL and SQL
NF3PZ06-006	total	Selenium	U	equipment blank contamination (0.014 B mg/L), field blank contamination (0.013 B mg/L), result is between SDL and SQL
NF3PZ06-006	total	Silver	J	result is between SDL and SQL
NF3PZ06-006	total	Titanium	J	result is between SDL and SQL
NF3PZ06-006	total	Vanadium	J	result is between SDL and SQL
NF3PZ06-006		4,4'-DDT	UJ	calibration drift column 1 (%D= -21)
NF3PZ06-006		1,1,2,2-Tetrachloroethane	UJ	calibration drift (%D= -25)
NF3PZ06-006		1,2,3-Trichloropropane	UJ	calibration drift (%D= -21)
NF3PZ06-006		1,2-Dibromo-3-chloropropane	UJ	calibration drift (%D= -22)
NF3PZ06-006		2-Butanone	UJ	calibration drift (%D= -31)
NF3PZ06-006		2-Hexanone	UJ	calibration drift (%D= -25)
NF3PZ06-006		4-Methyl-2-pentanone	UJ	calibration drift (%D= -35)
NF3PZ06-006		Acetone	U	field blank contamination (0.00872 J mg/L), calibration drift (%D= -27), result is between SDL and SQL
NF3PZ06-006		Acrolein	UJ	calibration drift (%D= -21)
NF3PZ06-006		Acrylonitrile	UJ	calibration drift (%D= -23)
NF3PZ06-006		Chloromethane	UJ	calibration drift (%D= -26)
NF3PZ06-006		Dichlorodifluoromethane	UJ	calibration drift (%D= -22)
NF3PZ06-006		Methyl Acetate	UJ	calibration drift (%D= -31)
NF3PZ06-006		Methylene chloride	U	laboratory blank contamination (0.00229 J mg/L), trip blank contamination (0.000573 J mg/L), result is between SDL and SQL
NF3PZ06-006		n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (GW), calibration drift (%D= -31)

## QUALIFIED DATA TABLE

Field Sample Identification	Total_or_dissolved	Analyte	Data Qualifier	Reason for Qualification
NF3PZ06-006		tert-Butyl methyl ether (MTBE)	UJ	calibration drift (%D= -22)
NF3PZ06-006		trans-1,4-Dichloro-2-butene	UJ	calibration drift (%D= -23)
NF3PZ06-006		2,4,5-Trichlorophenol	UJ	2 low acid SU recoveries (48%, 34%)
NF3PZ06-006		2,4,6-Trichlorophenol	UJ	2 low acid SU recoveries (48%, 34%)
NF3PZ06-006		2,4-Dichlorophenol	UJ	2 low acid SU recoveries (48%, 34%)
NF3PZ06-006		2,4-Dimethylphenol	UJ	2 low acid SU recoveries (48%, 34%)
NF3PZ06-006		2,4-Dinitrophenol	UJ	2 low acid SU recoveries (48%, 34%)
NF3PZ06-006		2-Chlorophenol	UJ	2 low acid SU recoveries (48%, 34%)
NF3PZ06-006		2-Nitrophenol	UJ	2 low acid SU recoveries (48%, 34%)
NF3PZ06-006		4,6-Dinitro-2-methylphenol	UJ	low instrument response (low RRF); elevate SDL for NDs 4x (Sed), 3x (GW); 2 low acid SU recoveries (48%, 34%)
NF3PZ06-006		4-Chloro-3-methylphenol	UJ	2 low acid SU recoveries (48%, 34%)
NF3PZ06-006		4-Nitrophenol	UJ	low LCS/LCSD ave recovery (28.5%), 2 low acid SU recoveries (48%, 34%)
NF3PZ06-006		Benzaldehyde	UJ	poor calibration fit (%RSD=61)
NF3PZ06-006		Benzidine	UJ	poor calibration fit (%RSD=24), calibration drift (%D= -51), low LCS/LCSD ave recovery (42%)
NF3PZ06-006		Benzo(a)pyrene	UJ	poor calibration fit (%RSD=20)
NF3PZ06-006		Benzoic acid	UJ	low LCS/LCSD ave recovery (23.5%)
NF3PZ06-006		Bis(2-Ethylhexyl)phthalate	J	result is between SDL and SQL
NF3PZ06-006		Caprolactam	UJ	low LCS/LCSD ave recovery (23%)
NF3PZ06-006		Di-n-butyl phthalate	U	equipment blank contamination (0.00105 J mg/L), field blank contamination (0.00107 J mg/L), result is between SDL and SQL
NF3PZ06-006		Hexachlorocyclopentadiene	UJ	low LCS/LCSD ave recovery (53.5%)
NF3PZ06-006		Hexachloroethane	UJ	low LCS/LCSD ave recovery (52.5%)
NF3PZ06-006		m,p-Cresol	UJ	low LCS/LCSD ave recovery (54.5%), 2 low acid surrogate recoveries (48%, 34%)
NF3PZ06-006		n-Nitrosodimethylamine	UJ	low LCS/LCSD ave recovery (49%)
NF3PZ06-006		o-Cresol	UJ	low LCS/LCSD ave recovery (57%), 2 low acid surrogate recoveries (48%, 34%)
NF3PZ06-006		Pentachlorophenol	UJ	2 low acid SU recoveries (48%, 34%)
NF3PZ06-006		Phenol	UJ	low LCS/LCSD ave recovery (26%), 2 low acid SU recoveries (48%, 34%)
NF3PZ06-006		Pyridine	UJ	poor calibration fit (%RSD=39), low LCS/LCSD ave recovery (43%)
PZ-500	total	Aluminum	J	result is between SDL and SQL
PZ-500	total	Antimony	J	result is between SDL and SQL
PZ-500	total	Arsenic	U	laboratory blank contamination (0.0081 B mg/L); poor lab duplicate precision (45 RPD)
PZ-500	total	Cobalt	U	equipment blank contamination (0.0039 B mg/L), field blank contamination (0.004 B mg/L), result is between SDL and SQL
PZ-500	total	Silver	J	result is between SDL and SQL
PZ-500	total	Titanium	U	equipment blank contamination (0.00054 B mg/L), result is between SDL and SQL
PZ-500	total	Vanadium	J	result is between SDL and SQL
PZ-500		4,4'-DDT	UJ	calibration drift column 1 (%D= -21)
PZ-500		Acetone	U	field blank contamination (0.00872 J mg/L), result is between SDL and SQL
PZ-500		Acrolein	UJ	low instrument response (low RRF); elevate SDL for NDs 15x (GW)
PZ-500		Chloroethane	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (GW)
PZ-500		n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (SW/GW) or 50x (Sed)

## QUALIFIED DATA TABLE

Field Sample Identification	Total or dissolved	Analyte	Data Qualifier	Reason for Qualification
PZ-500		Trichlorotrifluoroethane	UJ	low instrument response (low RRF); elevate SDL for NDs 3x (GW)
PZ-500		2,4,5-Trichlorophenol	UJ	2 low acid SU recoveries (44%, 30%)
PZ-500		2,4,6-Trichlorophenol	UJ	2 low acid SU recoveries (44%, 30%)
PZ-500		2,4-Dichlorophenol	UJ	2 low acid SU recoveries (44%, 30%)
PZ-500		2,4-Dimethylphenol	UJ	2 low acid SU recoveries (44%, 30%)
PZ-500		2,4-Dinitrophenol	UJ	2 low acid SU recoveries (44%, 30%)
PZ-500		2-Chlorophenol	UJ	2 low acid SU recoveries (44%, 30%)
PZ-500		2-Nitrophenol	UJ	2 low acid SU recoveries (44%, 30%)
PZ-500		4,6-Dinitro-2-methylphenol	UJ	low instrument response (low RRF); elevate SDL for NDs 4x (Sed), 3x (GW); 2 low acid SU recoveries (44%, 30%)
PZ-500		4-Chloro-3-methylphenol	UJ	2 low acid SU recoveries (44%, 30%)
PZ-500		4-Nitrophenol	UJ	low LCS/LCSD ave recovery (28.5%), 2 low acid SU recoveries (44%, 30%)
PZ-500		Benzaldehyde	UJ	poor calibration fit (%RSD=61)
PZ-500		Benzidine	UJ	poor calibration fit (%RSD=24), calibration drift (%D= -51), low LCS/LCSD ave recovery (42%)
PZ-500		Benzo(a)pyrene	UJ	poor calibration fit (%RSD=20)
PZ-500		Benzoic acid	UJ	low LCS/LCSD ave recovery (23.5%)
PZ-500		Caprolactam	UJ	low LCS/LCSD ave recovery (23%)
PZ-500		Di-n-butyl phthalate	U	equipment blank contamination (0.00105 J mg/L), field blank contamination (0.00107 J mg/L), result is between SDL and SQL
PZ-500		Hexachlorocyclopentadiene	UJ	low LCS/LCSD ave recovery (53.5%)
PZ-500		Hexachloroethane	UJ	low LCS/LCSD ave recovery (52.5%)
PZ-500		m,p-Cresol	UJ	low LCS/LCSD ave recovery (54.5%), 2 low acid surrogate recoveries (44%, 30%)
PZ-500		n-Nitrosodimethylamine	UJ	low LCS/LCSD ave recovery (49%)
PZ-500		o-Cresol	UJ	low LCS/LCSD ave recovery (57%), 2 low acid surrogate recoveries (44%, 30%)
PZ-500		Pentachlorophenol	UJ	2 low acid SU recoveries (44%, 30%)
PZ-500		Phenol	UJ	low LCS/LCSD ave recovery (26%), 2 low acid SU recoveries (44%, 30%)
PZ-500		Pyridine	UJ	poor calibration fit (%RSD=39), low LCS/LCSD ave recovery (43%)
SB4MW07-007	total	Aluminum	J	result is between SDL and SQL
SB4MW07-007	total	Antimony	J	result is between SDL and SQL
SB4MW07-007	total	Arsenic	U	laboratory blank contamination (0.0081 B mg/L); poor lab duplicate precision (45 RPD)
SB4MW07-007	total	Boron	J	result is between SDL and SQL
SB4MW07-007	total	Cobalt	U	equipment blank contamination (0.0039 B mg/L), field blank contamination (0.004 B mg/L), result is between SDL and SQL
SB4MW07-007	total	Nickel	U	equipment blank contamination (0.0021 B mg/L), field blank contamination (0.0018 B mg/L), result is between SDL and SQL
SB4MW07-007	total	Silver	J	result is between SDL and SQL
SB4MW07-007	total	Titanium	J	result is between SDL and SQL
SB4MW07-007	total	Vanadium	J	result is between SDL and SQL
SB4MW07-007	total	Zinc	J	result is between SDL and SQL
SB4MW07-007		4,4'-DDT	UJ	calibration drift column 1 (%D= -21)
SB4MW07-007		1,1,2,2-Tetrachloroethane	UJ	calibration drift (%D= -25)
SB4MW07-007		1,2,3-Trichloropropane	UJ	calibration drift (%D= -21)
SB4MW07-007		1,2-Dibromo-3-chloropropane	UJ	calibration drift (%D= -22)
SB4MW07-007		2-Butanone	UJ	calibration drift (%D= -31)

## QUALIFIED DATA TABLE

Field Sample Identification	Total_or_dissolved	Analyte	Data Qualifier	Reason for Qualification
SB4MW07-007		2-Hexanone	UJ	calibration drift (%D= -25)
SB4MW07-007		4-Methyl-2-pentanone	UJ	calibration drift (%D= -35)
SB4MW07-007		Acetone	UJ	calibration drift (%D= -27)
SB4MW07-007		Acrolein	UJ	calibration drift (%D= -21)
SB4MW07-007		Acrylonitrile	UJ	calibration drift (%D= -23)
SB4MW07-007		Chloromethane	UJ	calibration drift (%D= -26)
SB4MW07-007		Dichlorodifluoromethane	UJ	calibration drift (%D= -22)
SB4MW07-007		Methyl Acetate	UJ	calibration drift (%D= -31)
SB4MW07-007		Methylene chloride	U	laboratory blank contamination (0.00229 J mg/L), trip blank contamination (0.000573 J mg/L), result is between SDL and SQL
SB4MW07-007		n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (GW), calibration drift (%D= -31)
SB4MW07-007		tert-Butyl methyl ether (MTBE)	UJ	calibration drift (%D= -22)
SB4MW07-007		trans-1,4-Dichloro-2-butene	UJ	calibration drift (%D= -23)
SB4MW07-007		2,4,5-Trichlorophenol	UJ	2 low acid SU recoveries (48%, 40%)
SB4MW07-007		2,4,6-Trichlorophenol	UJ	2 low acid SU recoveries (48%, 40%)
SB4MW07-007		2,4-Dichlorophenol	UJ	2 low acid SU recoveries (48%, 40%)
SB4MW07-007		2,4-Dimethylphenol	UJ	2 low acid SU recoveries (48%, 40%)
SB4MW07-007		2,4-Dinitrophenol	UJ	2 low acid SU recoveries (48%, 40%)
SB4MW07-007		2-Chlorophenol	UJ	2 low acid SU recoveries (48%, 40%)
SB4MW07-007		2-Nitrophenol	UJ	2 low acid SU recoveries (48%, 40%)
SB4MW07-007		4,6-Dinitro-2-methylphenol	UJ	low instrument response (low RRF); elevate SDL for NDs 4x (Sed), 3x (GW); 2 low acid SU recoveries (48%, 40%)
SB4MW07-007		4-Chloro-3-methylphenol	UJ	2 low acid SU recoveries (48%, 40%)
SB4MW07-007		4-Nitrophenol	UJ	low LCS/LCSD ave recovery (28.5%), 2 low acid SU recoveries (48%, 40%)
SB4MW07-007		Benzaldehyde	UJ	poor calibration fit (%RSD=61)
SB4MW07-007		Benzidine	UJ	poor calibration fit (%RSD=24), calibration drift (%D= -51), low LCS/LCSD ave recovery (42%)
SB4MW07-007		Benzo(a)pyrene	UJ	poor calibration fit (%RSD=20)
SB4MW07-007		Benzoic acid	UJ	low LCS/LCSD ave recovery (23.5%)
SB4MW07-007		Caprolactam	UJ	low LCS/LCSD ave recovery (23%)
SB4MW07-007		Hexachlorocyclopentadiene	UJ	low LCS/LCSD ave recovery (53.5%)
SB4MW07-007		Hexachloroethane	UJ	low LCS/LCSD ave recovery (52.5%)
SB4MW07-007		m,p-Cresol	UJ	low LCS/LCSD ave recovery (54.5%), 2 low acid surrogate recoveries (48%, 40%)
SB4MW07-007		n-Nitrosodimethylamine	UJ	low LCS/LCSD ave recovery (49%)
SB4MW07-007		o-Cresol	UJ	low LCS/LCSD ave recovery (57%), 2 low acid surrogate recoveries (48%, 40%)
SB4MW07-007		Pentachlorophenol	UJ	2 low acid SU recoveries (48%, 40%)
SB4MW07-007		Phenol	UJ	low LCS/LCSD ave recovery (26%), 2 low acid SU recoveries (48%, 40%)
SB4MW07-007		Pyridine	UJ	poor calibration fit (%RSD=39), low LCS/LCSD ave recovery (43%)
SF5MW10-010	total	Cobalt	U	equipment blank contamination (0.0039 B mg/L), field blank contamination (0.004 B mg/L), result is between SDL and SQL
SF5MW10-010	total	Nickel	U	equipment blank contamination (0.0021 B mg/L), field blank contamination (0.0018 B mg/L), result is between SDL and SQL
SF5MW10-010	total	Selenium	U	equipment blank contamination (0.014 B mg/L), field blank contamination (0.013 B mg/L), result is between SDL and SQL
SF5MW10-010	total	Silver	U	equipment blank contamination (0.00073 B mg/L), field

## QUALIFIED DATA TABLE

Field Sample Identification	Total_or_dissolved	Analyte	Data Qualifier	Reason for Qualification
				blank contamination (0.00079 B mg/L), result is between SDL and SQL
SF5MW10-010	total	Thallium	U	equipment blank contamination (0.0023 B mg/L), field blank contamination (0.0035 B mg/L), result is between SDL and SQL
SF5MW10-010	total	Titanium	U	equipment blank contamination (0.00054 B mg/L), result is between SDL and SQL
SF5MW10-010	total	Vanadium	J	result is between SDL and SQL
SF5MW10-010		4,4'-DDT	UJ	calibration drift column 2 (%D= -17)
SF5MW10-010		gamma-BHC (Lindane)	J	result is between SDL and SQL
SF5MW10-010		4-Methyl-2-pentanone	UJ	calibration drift (%D= -23)
SF5MW10-010		Acetone	U	field blank contamination (0.00872 J mg/L), result is between SDL and SQL
SF5MW10-010		n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (GW)
SF5MW10-010		Vinyl chloride	J	result is between SDL and SQL
SF5MW10-010		2,4,5-Trichlorophenol	UJ	2 low acid SU recoveries (40%, 26%)
SF5MW10-010		2,4,6-Trichlorophenol	UJ	2 low acid SU recoveries (40%, 26%)
SF5MW10-010		2,4-Dichlorophenol	UJ	2 low acid SU recoveries (40%, 26%)
SF5MW10-010		2,4-Dimethylphenol	UJ	2 low acid SU recoveries (40%, 26%)
SF5MW10-010		2,4-Dinitrophenol	UJ	2 low acid SU recoveries (40%, 26%)
SF5MW10-010		2-Chlorophenol	UJ	2 low acid SU recoveries (40%, 26%)
SF5MW10-010		2-Nitrophenol	UJ	2 low acid SU recoveries (40%, 26%)
SF5MW10-010		4,6-Dinitro-2-methylphenol	UJ	low instrument response (low RRF); elevate SDL for NDs 4x (Sed), 3x (GW); 2 low acid SU recoveries (40%, 26%)
SF5MW10-010		4-Chloro-3-methylphenol	UJ	2 low acid SU recoveries (40%, 26%)
SF5MW10-010		4-Nitrophenol	UJ	low LCS/LCSD ave recovery (28.5%), 2 low acid SU recoveries (40%, 26%)
SF5MW10-010		Benzaldehyde	UJ	poor calibration fit (%RSD=61)
SF5MW10-010		Benzidine	UJ	poor calibration fit (%RSD=24), calibration drift (%D= -51), low LCS/LCSD ave recovery (42%)
SF5MW10-010		Benzo(a)pyrene	UJ	poor calibration fit (%RSD=20)
SF5MW10-010		Benzoic acid	UJ	low LCS/LCSD ave recovery (23.5%)
SF5MW10-010		Caprolactam	UJ	low LCS/LCSD ave recovery (23%)
SF5MW10-010		Hexachlorocyclopentadiene	UJ	low LCS/LCSD ave recovery (53.5%)
SF5MW10-010		Hexachloroethane	UJ	low LCS/LCSD ave recovery (52.5%)
SF5MW10-010		m,p-Cresol	UJ	low LCS/LCSD ave recovery (54.5%), 2 low acid surrogate recoveries (40%, 26%)
SF5MW10-010		n-Nitrosodimethylamine	UJ	low LCS/LCSD ave recovery (49%)
SF5MW10-010		o-Cresol	UJ	low LCS/LCSD ave recovery (57%), 2 low acid surrogate recoveries (40%, 26%)
SF5MW10-010		Pentachlorophenol	UJ	2 low acid SU recoveries (40%, 26%)
SF5MW10-010		Phenol	UJ	low LCS/LCSD ave recovery (26%), 2 low acid SU recoveries (40%, 26%)
SF5MW10-010		Pyridine	UJ	poor calibration fit (%RSD=39), low LCS/LCSD ave recovery (43%)
SG2MW13-013	total	Aluminum	J	result is between SDL and SQL
SG2MW13-013	total	Antimony	J	result is between SDL and SQL
SG2MW13-013	total	Arsenic	U	laboratory blank contamination (0.0081 B mg/L); poor lab duplicate precision (45 RPD)
SG2MW13-013	total	Cobalt	U	equipment blank contamination (0.0039 B mg/L), field blank contamination (0.004 B mg/L), result is between SDL and SQL
SG2MW13-013	total	Nickel	U	equipment blank contamination (0.0021 B mg/L), field blank contamination (0.0018 B mg/L), result is between SDL and SQL
SG2MW13-013	total	Silver	J	result is between SDL and SQL

## QUALIFIED DATA TABLE

Field Sample Identification	Total_or_dissolved	Analyte	Data Qualifier	Reason for Qualification
SG2MW13-013	total	Titanium	J	result is between SDL and SQL
SG2MW13-013	total	Vanadium	J	result is between SDL and SQL
SG2MW13-013	total	Zinc	U	equipment blank contamination (0.003 B mg/L), field blank contamination (0.0049 B mg/L), result is between SDL and SQL
SG2MW13-013		4,4'-DDT	UJ	calibration drift column 1 (%D= -21)
SG2MW13-013		1,1,1-Trichloroethane	J	result is between SDL and SQL
SG2MW13-013		1,1,2,2-Tetrachloroethane	UJ	calibration drift (%D= -25)
SG2MW13-013		1,2,3-Trichloropropane	UJ	calibration drift (%D= -21)
SG2MW13-013		1,2-Dibromo-3-chloropropane	UJ	calibration drift (%D= -22)
SG2MW13-013		2-Butanone	UJ	calibration drift (%D= -31)
SG2MW13-013		2-Hexanone	UJ	calibration drift (%D= -25)
SG2MW13-013		4-Methyl-2-pentanone	UJ	calibration drift (%D= -35)
SG2MW13-013		Acetone	U	field blank contamination (0.00872 J mg/L), calibration drift (%D= -27), result is between SDL and SQL
SG2MW13-013		Acrolein	UJ	calibration drift (%D= -21)
SG2MW13-013		Acrylonitrile	UJ	calibration drift (%D= -23)
SG2MW13-013		Chloromethane	UJ	calibration drift (%D= -26)
SG2MW13-013		cis-1,2-Dichloroethene	J	result is between SDL and SQL
SG2MW13-013		Dichlorodifluoromethane	UJ	calibration drift (%D= -22)
SG2MW13-013		Methyl Acetate	UJ	calibration drift (%D= -31)
SG2MW13-013		Methylene chloride	U	laboratory blank contamination (0.00229 J mg/L), trip blank contamination (0.000573 J mg/L), result is between SDL and SQL
SG2MW13-013		n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (GW), calibration drift (%D= -31)
SG2MW13-013		tert-Butyl methyl ether (MTBE)	UJ	calibration drift (%D= -22)
SG2MW13-013		trans-1,4-Dichloro-2-butene	UJ	calibration drift (%D= -23)
SG2MW13-013		2,4,5-Trichlorophenol	UJ	2 low acid SU recoveries (46%, 31%)
SG2MW13-013		2,4,6-Trichlorophenol	UJ	2 low acid SU recoveries (46%, 31%)
SG2MW13-013		2,4-Dichlorophenol	UJ	2 low acid SU recoveries (46%, 31%)
SG2MW13-013		2,4-Dimethylphenol	UJ	2 low acid SU recoveries (46%, 31%)
SG2MW13-013		2,4-Dinitrophenol	UJ	2 low acid SU recoveries (46%, 31%)
SG2MW13-013		2-Chlorophenol	UJ	2 low acid SU recoveries (46%, 31%)
SG2MW13-013		2-Nitrophenol	UJ	2 low acid SU recoveries (46%, 31%)
SG2MW13-013		4,6-Dinitro-2-methylphenol	UJ	low instrument response (low RRF); elevate SDL for NDs 4x (Sed), 3x (GW); 2 low acid SU recoveries (46%, 31%)
SG2MW13-013		4-Chloro-3-methylphenol	UJ	2 low acid SU recoveries (46%, 31%)
SG2MW13-013		4-Nitrophenol	UJ	low LCS/LCSD ave recovery (28.5%), 2 low acid SU recoveries (46%, 31%)
SG2MW13-013		Benzaldehyde	UJ	poor calibration fit (%RSD=61)
SG2MW13-013		Benzidine	UJ	poor calibration fit (%RSD=24), calibration drift (%D= -51), low LCS/LCSD ave recovery (42%)
SG2MW13-013		Benzo(a)pyrene	J	result is between SDL and SQL, poor calibration fit (%RSD=20)
SG2MW13-013		Benzo(b)fluoranthene	J	result is between SDL and SQL
SG2MW13-013		Benzo(g,h,i)perylene	J	result is between SDL and SQL
SG2MW13-013		Benzoic acid	UJ	low LCS/LCSD ave recovery (23.5%)
SG2MW13-013		Bis(2-Ethylhexyl)phthalate	J	result is between SDL and SQL
SG2MW13-013		Butyl benzyl phthalate	U	equipment blank contamination (0.021 mg/L), field blank contamination (0.021 mg/L), result is between SDL and SQL
SG2MW13-013		Caprolactam	UJ	low LCS/LCSD ave recovery (23%)

## QUALIFIED DATA TABLE

<b>Field Sample Identification</b>	<b>Total_or_dissolved</b>	<b>Analyte</b>	<b>Data Qualifier</b>	<b>Reason for Qualification</b>
SG2MW13-013		Chrysene	J	result is between SDL and SQL
SG2MW13-013		Dibenz(a,h)anthracene	J	result is between SDL and SQL
SG2MW13-013		Di-n-butyl phthalate	U	equipment blank contamination (0.00105 J mg/L), field blank contamination (0.00107 J mg/L), result is between SDL and SQL
SG2MW13-013		Di-n-octyl phthalate	J	result is between SDL and SQL
SG2MW13-013		Hexachlorocyclopentadiene	UJ	low LCS/LCSD ave recovery (53.5%)
SG2MW13-013		Hexachloroethane	UJ	low LCS/LCSD ave recovery (52.5%)
SG2MW13-013		Indeno(1,2,3-cd)pyrene	J	result is between SDL and SQL
SG2MW13-013		m,p-Cresol	UJ	low LCS/LCSD ave recovery (54.5%), 2 low acid surrogate recoveries (46%, 31%)
SG2MW13-013		n-Nitrosodimethylamine	UJ	low LCS/LCSD ave recovery (49%)
SG2MW13-013		o-Cresol	UJ	low LCS/LCSD ave recovery (57%), 2 low acid surrogate recoveries (46%, 31%)
SG2MW13-013		Pentachlorophenol	UJ	2 low acid SU recoveries (46%, 31%)
SG2MW13-013		Phenol	UJ	low LCS/LCSD ave recovery (26%), 2 low acid SU recoveries (46%, 31%)
SG2MW13-013		Pyridine	UJ	poor calibration fit (%RSD=39), low LCS/LCSD ave recovery (43%)

## ATTACHMENT 1

Sample_ID	Lab_Sample_ID	Test_type_code	Analytical_Method	Total_or_dissolved	Matrix	Parameter	Valid_qualifier	Result_type_code	Prep_date	Prep_time	Analysis_Date	Analysis_Time	QC_comment	QC_Batch
SB4MW07 (396600DUP)	396616	DUP	SW6010B	total	W	Aluminum	none (difference < +/- MQL for these low-level dup results)	TRG	8/2/2006	11:30	8/4/2006	13:59	poor lab duplicate precision (53 RPD)	329535
SB4MW07 (396600DUP)	396616	DUP	SW6010B	total	W	Antimony	none (difference < +/- MQL for these low-level dup results)	TRG	8/2/2006	11:30	8/4/2006	13:59	poor lab duplicate precision (164 RPD)	329535
MB for HBN 329300 [DIGM/12341]	396614	LB	SW6010B	total	W	Arsenic	U to RRs < 5 x BlankEquivConc	TRG	8/2/2006	11:30	8/4/2006	13:37	laboratory blank contamination (0.0081 B mg/L)	329535
SB4MW07 (396600DUP)	396616	DUP	SW6010B	total	W	Arsenic	J to RRs	TRG	8/2/2006	11:30	8/4/2006	13:59	poor lab duplicate precision (45 RPD)	329535
EB-502	20608020310	EQBK	SW6010B	total	W	Boron	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	11:30	8/3/2006	21:35	equipment blank contamination (0.023 B mg/L)	329500
EB-503	20608020314	EQBK	SW6010B	total	W	Boron	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	11:30	8/3/2006	21:42	equipment blank contamination (0.019 B mg/L)	329500
FB-502	20608020308	FLDBK	SW6010B	total	W	Boron	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	11:30	8/3/2006	22:10	field blank contamination (0.033 B mg/L)	329500
FB-503	20608020313	FLDBK	SW6010B	total	W	Boron	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	11:30	8/3/2006	22:23	field blank contamination (0.03 B mg/L)	329500
EB-502	20608020310	EQBK	SW6010B	total	W	Cadmium	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	11:30	8/3/2006	21:35	equipment blank contamination (0.00093 B mg/L)	329500
EB-503	20608020314	EQBK	SW6010B	total	W	Cadmium	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	11:30	8/3/2006	21:42	equipment blank contamination (0.0009 B mg/L)	329500
FB-502	20608020308	FLDBK	SW6010B	total	W	Cadmium	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	11:30	8/3/2006	22:10	field blank contamination (0.00096 B mg/L)	329500
FB-503	20608020313	FLDBK	SW6010B	total	W	Cadmium	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	11:30	8/3/2006	22:23	field blank contamination (0.00096 B mg/L)	329500
EB-502	20608020310	EQBK	SW6010B	total	W	Cobalt	U to RRs < 5 x BlankEquivConc	TRG	8/2/2006	11:30	8/3/2006	21:35	equipment blank contamination (0.0039 B mg/L)	329500
EB-503	20608020314	EQBK	SW6010B	total	W	Cobalt	U to RRs < 5 x BlankEquivConc	TRG	8/2/2006	11:30	8/3/2006	21:42	equipment blank contamination (0.0039 B mg/L)	329500
FB-502	20608020308	FLDBK	SW6010B	total	W	Cobalt	U to RRs < 5 x BlankEquivConc	TRG	8/2/2006	11:30	8/3/2006	22:10	field blank contamination (0.0038 B mg/L)	329500
FB-503	20608020313	FLDBK	SW6010B	total	W	Cobalt	U to RRs < 5 x BlankEquivConc	TRG	8/2/2006	11:30	8/3/2006	22:23	field blank contamination (0.004 B mg/L)	329500
MB for HBN 329300 [DIGM/12341]	396614	LB	SW6010B	total	W	Hardness	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	11:30	8/4/2006	13:37	laboratory blank contamination (0.17 B mg/L)	329535
EB-502	20608020310	EQBK	SW6010B	total	W	Hardness	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	11:30	8/3/2006	21:35	equipment blank contamination (0.53 B mg/L)	329500
EB-503	20608020314	EQBK	SW6010B	total	W	Hardness	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	11:30	8/3/2006	21:42	equipment blank contamination (0.54 B mg/L)	329500

## ATTACHMENT 1

FB-502	20608020308	FLDBK	SW6010B	total	W	Hardness	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	11:30	8/3/2006	22:10	field blank contamination (0.41 B mg/L)	329500
FB-503	20608020313	FLDBK	SW6010B	total	W	Hardness	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	11:30	8/3/2006	22:23	field blank contamination (0.43 B mg/L)	329500
SB4MW07 (396600MS)	396617	MS	SW6010B	total	W	Hardness	none (waived due to high parent conc)	TRG	8/2/2006	11:30	8/4/2006	14:06	extremely low MS recovery (-3000%)	329535
EB-502	20608020310	EQBK	SW6010B	total	W	Manganese	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	11:30	8/3/2006	21:35	equipment blank contamination (0.016 mg/L)	329500
EB-503	20608020314	EQBK	SW6010B	total	W	Manganese	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	11:30	8/3/2006	21:42	equipment blank contamination (0.0039 B mg/L)	329500
EB-502	20608020310	EQBK	SW6010B	total	W	Nickel	U to RRs < 5 x BlankEquivConc	TRG	8/2/2006	11:30	8/3/2006	21:35	equipment blank contamination (0.0015 B mg/L)	329500
EB-503	20608020314	EQBK	SW6010B	total	W	Nickel	U to RRs < 5 x BlankEquivConc	TRG	8/2/2006	11:30	8/3/2006	21:42	equipment blank contamination (0.0021 B mg/L)	329500
FB-502	20608020308	FLDBK	SW6010B	total	W	Nickel	U to RRs < 5 x BlankEquivConc	TRG	8/2/2006	11:30	8/3/2006	22:10	field blank contamination (0.0018 B mg/L)	329500
FB-503	20608020313	FLDBK	SW6010B	total	W	Nickel	U to RRs < 5 x BlankEquivConc	TRG	8/2/2006	11:30	8/3/2006	22:23	field blank contamination (0.0017 B mg/L)	329500
EB-502	20608020310	EQBK	SW6010B	total	W	Selenium	U to RRs < 5 x BlankEquivConc	TRG	8/2/2006	11:30	8/3/2006	21:35	equipment blank contamination (0.014 B mg/L)	329500
EB-503	20608020314	EQBK	SW6010B	total	W	Selenium	U to RRs < 5 x BlankEquivConc	TRG	8/2/2006	11:30	8/3/2006	21:42	equipment blank contamination (0.014 B mg/L)	329500
FB-502	20608020308	FLDBK	SW6010B	total	W	Selenium	U to RRs < 5 x BlankEquivConc	TRG	8/2/2006	11:30	8/3/2006	22:10	field blank contamination (0.013 B mg/L)	329500
FB-503	20608020313	FLDBK	SW6010B	total	W	Selenium	U to RRs < 5 x BlankEquivConc	TRG	8/2/2006	11:30	8/3/2006	22:23	field blank contamination (0.013 B mg/L)	329500
EB-502	20608020310	EQBK	SW6010B	total	W	Silver	U to RRs < 5 x BlankEquivConc	TRG	8/2/2006	11:30	8/3/2006	21:35	equipment blank contamination (0.00073 B mg/L)	329500
EB-503	20608020314	EQBK	SW6010B	total	W	Silver	U to RRs < 5 x BlankEquivConc	TRG	8/2/2006	11:30	8/3/2006	21:42	equipment blank contamination (0.00066 B mg/L)	329500
FB-502	20608020308	FLDBK	SW6010B	total	W	Silver	U to RRs < 5 x BlankEquivConc	TRG	8/2/2006	11:30	8/3/2006	22:10	field blank contamination (0.00075 B mg/L)	329500
FB-503	20608020313	FLDBK	SW6010B	total	W	Silver	U to RRs < 5 x BlankEquivConc	TRG	8/2/2006	11:30	8/3/2006	22:23	field blank contamination (0.00079 B mg/L)	329500
SB4MW07 (396600MS)	396617	MS	SW6010B	total	W	Strontium	none (waived due to high parent conc)	TRG	8/2/2006	11:30	8/4/2006	14:06	extremely low MS recovery (-100%)	329535
EB-502	20608020310	EQBK	SW6010B	total	W	Thallium	U to RRs < 5 x BlankEquivConc	TRG	8/2/2006	11:30	8/3/2006	21:35	equipment blank contamination (0.0019 B mg/L)	329500
EB-503	20608020314	EQBK	SW6010B	total	W	Thallium	U to RRs < 5 x BlankEquivConc	TRG	8/2/2006	11:30	8/3/2006	21:42	equipment blank contamination (0.0023 B mg/L)	329500

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FB-502	20608020308	FLDBK	SW6010B	total	W	Thallium	U to RR<5 x BlankEquivConc	TRG	8/2/2006	11:30	8/3/2006	22:10	field blank contamination (0.0035 B mg/L)	329500
FB-503	20608020313	FLDBK	SW6010B	total	W	Thallium	U to RR<5 x BlankEquivConc	TRG	8/2/2006	11:30	8/3/2006	22:23	field blank contamination (0.0015 B mg/L)	329500
EB-503	20608020314	EQBK	SW6010B	total	W	Titanium	U to RR<5 x BlankEquivConc	TRG	8/2/2006	11:30	8/3/2006	21:42	equipment blank contamination (0.00054 B mg/L)	329500
SB4MW07 (396600DUP)	396616	DUP	SW6010B	total	W	Vanadium	none (difference < +/- MQL for these low-level dup results)	TRG	8/2/2006	11:30	8/4/2006	13:59	poor lab duplicate precision (33 RPD)	329535
EB-502	20608020310	EQBK	SW6010B	total	W	Zinc	U to RR<5 x BlankEquivConc	TRG	8/2/2006	11:30	8/3/2006	21:35	equipment blank contamination (0.003 B mg/L)	329500
FB-503	20608020313	FLDBK	SW6010B	total	W	Zinc	U to RR<5 x BlankEquivConc	TRG	8/2/2006	11:30	8/3/2006	22:23	field blank contamination (0.0049 B mg/L)	329500
SB4MW07 (396600DUP)	396616	DUP	SW6010B	total	W	Zinc	none (difference < +/- MQL for these low-level dup results)	TRG	8/2/2006	11:30	8/4/2006	13:59	poor lab duplicate precision (35 RPD)	329535
x	2060802sv17a035	CCV1	SW8081A			4,4'-DDD	J+ to RR (none)	Pest			8/3/06	15:35	calibration drift column 1 (%D= -19)	
x	2060802sv17a035	CCV1	SW8081A			4,4'-DDT	J- / UJ to RR/NDs	Pest			8/3/06	15:35	calibration drift column 1 (%D= -21)	
x	2060802sv17b071	CCV2	SW8081A			4,4'-DDT	J- / UJ to RR/NDs	Pest			8/4/06	14:00	calibration drift column 2 (%D= -17)	
x	U8715	CCV1	SW8260B			1,1,2,2-Tetrachloroethane	J- / UJ to RR/NDs	VOC			8/10/06	8:26	calibration drift (%D= -25)	
x	U8762	CCV1	SW8260B			1,1,2,2-Tetrachloroethane	J- / UJ to RR/NDs	VOC			8/11/06	7:39	calibration drift (%D= -24)	
x	U8715	CCV1	SW8260B			1,2,3-Trichloropropene	J- / UJ to RR/NDs	VOC			8/10/06	8:26	calibration drift (%D= -21)	
x	U8762	CCV1	SW8260B			1,2,3-Trichloropropene	J- / UJ to RR/NDs	VOC			8/11/06	7:39	calibration drift (%D= -24)	
x	U8715	CCV1	SW8260B			1,2-Dibromo-3-chloropropane	J- / UJ to RR/NDs	VOC			8/10/06	8:26	calibration drift (%D= -22)	
x	U8762	CCV1	SW8260B			1,2-Dibromo-3-chloropropane	J- / UJ to RR/NDs	VOC			8/11/06	7:39	calibration drift (%D= -26)	
x	U8715	CCV1	SW8260B			2-Butanone	J- / UJ to RR/NDs	VOC			8/10/06	8:26	calibration drift (%D= -31)	
x	U8762	CCV1	SW8260B			2-Butanone	J- / UJ to RR/NDs	VOC			8/11/06	7:39	calibration drift (%D= -36)	
LCSD for HBN 330298 [MSV/8848]	400090	LCSD	SW8260B		W	2-Butanone	J- / UJ to RR/NDs	TRG			8/11/2006	8:41	low LCS/LCSD ave recovery (55.5%)	330298
x	U8715	CCV1	SW8260B			2-Hexanone	J- / UJ to RR/NDs	VOC			8/10/06	8:26	calibration drift (%D= -25)	

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x	U8762	CCV1	SW8260B		2-Hexanone	J- / UJ to RRs/NDs	VOC			8/11/06	7:39	calibration drift (%D= -30)	
x	U8715	CCV1	SW8260B		4-Methyl-2-pentanone	J- / UJ to RRs/NDs	VOC			8/10/06	8:26	calibration drift (%D= -35)	
x	U8742	CCV1	SW8260B		4-Methyl-2-pentanone	J- / UJ to RRs/NDs	VOC			8/10/06	20:45	calibration drift (%D= -23)	
x	U8762	CCV1	SW8260B		4-Methyl-2-pentanone	J- / UJ to RRs/NDs	VOC			8/11/06	7:39	calibration drift (%D= -36)	
x	U8715	CCV1	SW8260B		Acetone	J- / UJ to RRs/NDs	VOC			8/10/06	8:26	calibration drift (%D= -27)	
x	U8762	CCV1	SW8260B		Acetone	J- / UJ to RRs/NDs	VOC			8/11/06	7:39	calibration drift (%D= -33)	
FB-503	20608020313	FLDBK	SW8260B	W	Acetone	U to RRs < 10 x BlankEquivConc	TRG			8/4/2006	0:48	field blank contamination (0.00872 J mg/L)	329530
x	G6793	ICAL1	SW8260B		Acrolein	J / UJ to RRs/NDs	VOC			8/1/06	13:40	low instrument response (low RRF); elevate SDL for NDs 15x (GW)	
x	U8715	CCV1	SW8260B		Acrolein	J- / UJ to RRs/NDs	VOC			8/10/06	8:26	calibration drift (%D= -21)	
x	U8715	CCV1	SW8260B		Acrylonitrile	J- / UJ to RRs/NDs	VOC			8/10/06	8:26	calibration drift (%D= -23)	
x	U8762	CCV1	SW8260B		Acrylonitrile	J- / UJ to RRs/NDs	VOC			8/11/06	7:39	calibration drift (%D= -21)	
x	U8715	CCV1	SW8260B		Bromomethane	J+ to RRs (none)	VOC			8/10/06	8:26	calibration drift (%D= 93)	
x	U8742	CCV1	SW8260B		Bromomethane	J+ to RRs (none)	VOC			8/10/06	20:45	calibration drift (%D= 183)	
x	U8762	CCV1	SW8260B		Bromomethane	J+ to RRs (none)	VOC			8/11/06	7:39	calibration drift (%D= 156)	
LCSD for HBN 330206 [MSV/8840]	399714	LCSD	SW8260B	W	Bromomethane	J+ to RRs (none)	TRG			8/10/2006	9:26	high LCS/LCSD ave recovery (266.5%)	330206
LCSD for HBN 330281 [MSV/8846]	400041	LCSD	SW8260B	W	Bromomethane	J+ to RRs (none)	TRG			8/10/2006	22:10	high LCS/LCSD ave recovery (216%)	330281
LCSD for HBN 330298 [MSV/8848]	400090	LCSD	SW8260B	W	Bromomethane	J+ to RRs (none)	TRG			8/11/2006	8:41	high LCS/LCSD ave recovery (279.5%)	330298
x	G6793	ICAL1	SW8260B		Chloroethane	J / UJ to RRs/NDs	VOC			8/1/06	13:40	low instrument response (low RRF); elevate SDL for NDs 2x (GW)	
LCSD for HBN 329608 [MSV/8812]	398014	LCSD	SW8260B	W	Chloroethane	J+ to RRs (none)	TRG			8/5/2006	7:47	high LCS/LCSD ave recovery (188.5%)	329608
x	U8715	CCV1	SW8260B		Chloromethane	J- / UJ to RRs/NDs	VOC			8/10/06	8:26	calibration drift (%D= -26)	

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x	U8715	CCV1	SW8260B		Dichlorodifluoromethane	J- / UJ to RRs/NDs	VOC			8/10/06	8:26	calibration drift (%D= -22)	
x	U8715	CCV1	SW8260B		Methyl acetate	J- / UJ to RRs/NDs	VOC			8/10/06	8:26	calibration drift (%D= -31)	
x	U8762	CCV1	SW8260B		Methyl acetate	J- / UJ to RRs/NDs	VOC			8/11/06	7:39	calibration drift (%D= -24)	
x	U8742	CCV1	SW8260B		Methyl iodide	J+ to RRs (none)	VOC			8/10/06	20:45	calibration drift (%D= 22)	
MB for HBN 330206 [IMSV/8840]	399712	LB	SW8260B	W	Methylene chloride	U to RRs < 10 x BlankEquivConc	TRG			8/10/2006	10:17	laboratory blank contamination (0.00229 J mg/L)	330206
MB for HBN 330298 [IMSV/8848]	400088	LB	SW8260B	W	Methylene chloride	U to RRs < 10 x BlankEquivConc	TRG			8/11/2006	9:33	laboratory blank contamination (0.00143 J mg/L)	330298
TB-1149	20608020311	TRIPBK	SW8260B	W	Methylene chloride	U to RRs < 10 x BlankEquivConc	TRG			8/4/2006	0:22	trip blank contamination (0.000573 J mg/L)	329530
x	U8715	CCV1	SW8260B		MTBE	J- / UJ to RRs/NDs	VOC			8/10/06	8:26	calibration drift (%D= -22)	
x	U8762	CCV1	SW8260B		MTBE	J- / UJ to RRs/NDs	VOC			8/11/06	7:39	calibration drift (%D= -21)	
MB for HBN 329608 [IMSV/8812]	398012	LB	SW8260B	W	Naphthalene	U to RRs < 5 x BlankEquivConc (none)	TRG			8/5/2006	8:14	laboratory blank contamination (0.00106 J mg/L)	329608
x	G5023	ICAL2	SW8260B		n-Butyl alcohol	J / UJ to RRs/NDs	App9			6/14/06	7:30	low instrument response (low RRF); elevate SDL for NDs 2x (SW/GW) or 50x (Sed)	
x	U7857	ICAL2	SW8260B		n-Butyl alcohol	J / UJ to RRs/NDs	App9			7/21/06	8:08	low instrument response (low RRF); elevate SDL for NDs 2x (GW)	
x	U8718	CCV2	SW8260B		n-Butyl alcohol	J- / UJ to RRs/NDs	App9			8/10/06	9:51	calibration drift (%D= -31)	
x	U8715	CCV1	SW8260B		trans-1,4-Dichloro-2- butene	J- / UJ to RRs/NDs	VOC			8/10/06	8:26	calibration drift (%D= -23)	
x	U8762	CCV1	SW8260B		trans-1,4-Dichloro-2- butene	J- / UJ to RRs/NDs	VOC			8/11/06	7:39	calibration drift (%D= -26)	
x	G6793	ICAL1	SW8260B		Trichlorotrifluoromethane	J / UJ to RRs/NDs	VOC			8/1/06	13:40	low instrument response (low RRF); elevate SDL for NDs 3x (GW)	
x	C0362	ICAL1	SW8270C		2,4-Dinitrophenol	none (response adequate at GW MDL)	SVOC			7/26/06	13:38	low instrument response (low RRF); elevate SDL for NDs 1.2x (Sed); none required for GW	
EB-503	20608020314	EQBK	SW8270C	W	2-Chlorophenol	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	17:00	8/3/2006	15:02	equipment blank contamination (0.000614 J mg/L)	329496
FB-503	20608020313	FLDBK	SW8270C	W	2-Chlorophenol	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	17:00	8/3/2006	14:47	field blank contamination (0.000634 J mg/L)	329496
EB-503	20608020314	EQBK	SW8270C	W	2-Methylnaphthalene	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	17:00	8/3/2006	15:02	equipment blank contamination (0.000426 J mg/L)	329496

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FB-503	20608020313	FLDBK	SW8270C		W	2-Methylnaphthalene	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	17:00	8/3/2006	14:47	field blank contamination (0.000541 J mg/L)	329496
EB-503	20608020314	EQBK	SW8270C		W	2-Nitrophenol	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	17:00	8/3/2006	15:02	equipment blank contamination (0.000384 J mg/L)	329496
FB-503	20608020313	FLDBK	SW8270C		W	2-Nitrophenol	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	17:00	8/3/2006	14:47	field blank contamination (0.000495 J mg/L)	329496
x	C0362	ICAL1	SW8270C			4,6-Dinitro-o-cresol	J / UJ to RRs/NDs	SVOC			7/26/06	13:38	low instrument response (low RRF); elevate SDL for NDs 4x (Sed); 3x (GW)	
EB-503	20608020314	EQBK	SW8270C		W	4-Chloro-3-methylphenol	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	17:00	8/3/2006	15:02	equipment blank contamination (0.000357 J mg/L)	329496
FB-503	20608020313	FLDBK	SW8270C		W	4-Chloro-3-methylphenol	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	17:00	8/3/2006	14:47	field blank contamination (0.000362 J mg/L)	329496
EB-503	20608020314	EQBK	SW8270C		W	4-Chloroaniline	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	17:00	8/3/2006	15:02	equipment blank contamination (0.000501 J mg/L)	329496
FB-503	20608020313	FLDBK	SW8270C		W	4-Chloroaniline	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	17:00	8/3/2006	14:47	field blank contamination (0.000429 J mg/L)	329496
LCSD for HBN 329313 [EXTO/1437]	396704	LCSD	SW8270C		W	4-Nitrophenol	J- / UJ to RRs/NDs	TRG	8/2/2006	17:00	8/3/2006	12:44	low LCS/LCSD ave recovery (28.5%)	329496
EB-502	20608020310	EQBK	SW8270C		W	Acetophenone	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	17:00	8/3/2006	14:16	equipment blank contamination (0.00201 J mg/L)	329496
EB-503	20608020314	EQBK	SW8270C		W	Acetophenone	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	17:00	8/3/2006	15:02	equipment blank contamination (0.00253 J mg/L)	329496
FB-502	20608020308	FLDBK	SW8270C		W	Acetophenone	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	17:00	8/3/2006	14:01	field blank contamination (0.000833 J mg/L)	329496
FB-503	20608020313	FLDBK	SW8270C		W	Acetophenone	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	17:00	8/3/2006	14:47	field blank contamination (0.0027 J mg/L)	329496
EB-503	20608020314	EQBK	SW8270C		W	Aniline	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	17:00	8/3/2006	15:02	equipment blank contamination (0.00153 J mg/L)	329496
FB-503	20608020313	FLDBK	SW8270C		W	Aniline	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	17:00	8/3/2006	14:47	field blank contamination (0.00154 J mg/L)	329496
x	C0362	ICAL1	SW8270C			Benzaldehyde	J / UJ to RRs/NDs	SVOC			7/26/06	13:38	poor calibration fit (%RSD=61)	
x	C0545	CCV1	SW8270C			Benzaldehyde	J+ to RRs (none)	SVOC			8/3/06	8:25	calibration drift (%D= 60)	
EB-502	20608020310	EQBK	SW8270C		W	Benzaldehyde	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	17:00	8/3/2006	14:16	equipment blank contamination (0.00195 J mg/L)	329496
EB-503	20608020314	EQBK	SW8270C		W	Benzaldehyde	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	17:00	8/3/2006	15:02	equipment blank contamination (0.00277 J mg/L)	329496
FB-502	20608020308	FLDBK	SW8270C		W	Benzaldehyde	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	17:00	8/3/2006	14:01	field blank contamination (0.00128 J mg/L)	329496

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FB-503	20608020313	FLDBK	SW8270C		W	Benzaldehyde	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	17:00	8/3/2006	14:47	field blank contamination (0.00268 J mg/L)	329496
LCSD for HBN 329313 [EXTO/1437]	396704	LCSD	SW8270C		W	Benzaldehyde	J+ to RRs (none)	TRG	8/2/2006	17:00	8/3/2006	12:44	high LCS/LCSD ave recovery (151.5%)	329496
x	C0362	ICAL1	SW8270C			Benzidine	J / UJ to RRs/NDs	SVOC			7/26/06	13:38	poor calibration fit (%RSD=24)	
x	C0545	CCV1	SW8270C			Benzidine	J- / UJ to RRs/NDs	SVOC			8/3/06	8:25	calibration drift (%D= -51)	
LCSD for HBN 329313 [EXTO/1437]	396704	LCSD	SW8270C		W	Benzidine	J- / UJ to RRs/NDs	TRG	8/2/2006	17:00	8/3/2006	12:44	low LCS/LCSD ave recovery (42%)	329496
LCSD for HBN 329313 [EXTO/1437]	396704	LCSD	SW8270C		W	Benzidine	J to RRs (none)	TRG	8/2/2006	17:00	8/3/2006	12:44	poor LCS/LCSD precision (48 RPD)	329496
x	C0362	ICAL1	SW8270C			Benzo(a)pyrene	J / UJ to RRs/NDs	SVOC			7/26/06	13:38	poor calibration fit (%RSD=20)	
LCSD for HBN 329313 [EXTO/1437]	396704	LCSD	SW8270C		W	Benzoic acid	J- / UJ to RRs/NDs	TRG	8/2/2006	17:00	8/3/2006	12:44	low LCS/LCSD ave recovery (23.5%)	329496
EB-502	20608020310	EQBK	SW8270C		W	Benzyl alcohol	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	17:00	8/3/2006	14:16	equipment blank contamination (0.000455 J mg/L)	329496
EB-503	20608020314	EQBK	SW8270C		W	Benzyl alcohol	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	17:00	8/3/2006	15:02	equipment blank contamination (0.00118 J mg/L)	329496
FB-503	20608020313	FLDBK	SW8270C		W	Benzyl alcohol	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	17:00	8/3/2006	14:47	field blank contamination (0.00128 J mg/L)	329496
EB-503	20608020314	EQBK	SW8270C		W	Bis(2-Chloroethoxy)methane	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	17:00	8/3/2006	15:02	equipment blank contamination (0.000472 J mg/L)	329496
FB-503	20608020313	FLDBK	SW8270C		W	Bis(2-Chloroethoxy)methane	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	17:00	8/3/2006	14:47	field blank contamination (0.000548 J mg/L)	329496
EB-503	20608020314	EQBK	SW8270C		W	Bis(2-Chloroethyl)ether	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	17:00	8/3/2006	15:02	equipment blank contamination (0.000479 J mg/L)	329496
FB-503	20608020313	FLDBK	SW8270C		W	Bis(2-Chloroethyl)ether	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	17:00	8/3/2006	14:47	field blank contamination (0.000457 J mg/L)	329496
EB-503	20608020314	EQBK	SW8270C		W	Bis(2-Chloroisopropyl)ether	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	17:00	8/3/2006	15:02	equipment blank contamination (0.000451 J mg/L)	329496
FB-503	20608020313	FLDBK	SW8270C		W	Bis(2-Chloroisopropyl)ether	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	17:00	8/3/2006	14:47	field blank contamination (0.000493 J mg/L)	329496
EB-502	20608020310	EQBK	SW8270C		W	Butyl benzyl phthalate	U to RRs < 10 x BlankEquivConc	TRG	8/2/2006	17:00	8/3/2006	14:16	equipment blank contamination (0.021 mg/L)	329496
EB-503	20608020314	EQBK	SW8270C		W	Butyl benzyl phthalate	U to RRs < 10 x BlankEquivConc	TRG	8/2/2006	17:00	8/3/2006	15:02	equipment blank contamination (0.021 mg/L)	329496
FB-502	20608020308	FLDBK	SW8270C		W	Butyl benzyl phthalate	U to RRs < 10 x BlankEquivConc	TRG	8/2/2006	17:00	8/3/2006	14:01	field blank contamination (0.0012 J mg/L)	329496

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FB-503	20608020313	FLDBK	SW8270C		W	Butyl benzyl phthalate	U to RRs < 10 x BlankEquivConc	TRG	8/2/2006	17:00	8/3/2006	14:47	field blank contamination (0.021 mg/L)	329496
FB-502	20608020308	FLDBK	SW8270C		W	Caprolactam	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	17:00	8/3/2006	14:01	field blank contamination (0.000799 J mg/L)	329496
LCSD for HBN 329313 [EXTO/1437]	396704	LCSD	SW8270C		W	Caprolactam	J- / UJ to RRs/NDs	TRG	8/2/2006	17:00	8/3/2006	12:44	low LCS/LCSD ave recovery (23%)	329496
EB-502	20608020310	EQBK	SW8270C		W	Diethyl phthalate	U to RRs < 10 x BlankEquivConc (none)	TRG	8/2/2006	17:00	8/3/2006	14:16	equipment blank contamination (0.000673 J mg/L)	329496
FB-502	20608020308	FLDBK	SW8270C		W	Diethyl phthalate	U to RRs < 10 x BlankEquivConc (none)	TRG	8/2/2006	17:00	8/3/2006	14:01	field blank contamination (0.000887 J mg/L)	329496
FB-503	20608020313	FLDBK	SW8270C		W	Diethyl phthalate	U to RRs < 10 x BlankEquivConc (none)	TRG	8/2/2006	17:00	8/3/2006	14:47	field blank contamination (0.000681 J mg/L)	329496
EB-502	20608020310	EQBK	SW8270C		W	Di-n-butyl phthalate	U to RRs < 10 x BlankEquivConc	TRG	8/2/2006	17:00	8/3/2006	14:16	equipment blank contamination (0.000974 J mg/L)	329496
EB-503	20608020314	EQBK	SW8270C		W	Di-n-butyl phthalate	U to RRs < 10 x BlankEquivConc	TRG	8/2/2006	17:00	8/3/2006	15:02	equipment blank contamination (0.00105 J mg/L)	329496
FB-503	20608020313	FLDBK	SW8270C		W	Di-n-butyl phthalate	U to RRs < 10 x BlankEquivConc	TRG	8/2/2006	17:00	8/3/2006	14:47	field blank contamination (0.00107 J mg/L)	329496
EB-503	20608020314	EQBK	SW8270C		W	Hexachlorocyclopentadiene	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	17:00	8/3/2006	15:02	equipment blank contamination (0.00466 J mg/L)	329496
LCSD for HBN 329313 [EXTO/1437]	396704	LCSD	SW8270C		W	Hexachlorocyclopentadiene	J- / UJ to RRs/NDs	TRG	8/2/2006	17:00	8/3/2006	12:44	low LCS/LCSD ave recovery (53.5%)	329496
LCSD for HBN 329313 [EXTO/1437]	396704	LCSD	SW8270C		W	Hexachloroethane	J- / UJ to RRs/NDs	TRG	8/2/2006	17:00	8/3/2006	12:44	low LCS/LCSD ave recovery (52.5%)	329496
LCSD for HBN 329313 [EXTO/1437]	396704	LCSD	SW8270C		W	m,p-Cresol	J- / UJ to RRs/NDs	TRG	8/2/2006	17:00	8/3/2006	12:44	low LCS/LCSD ave recovery (54.5%)	329496
EB-503	20608020314	EQBK	SW8270C		W	Nitrobenzene	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	17:00	8/3/2006	15:02	equipment blank contamination (0.000502 J mg/L)	329496
LCSD for HBN 329313 [EXTO/1437]	396704	LCSD	SW8270C		W	n-Nitrosodimethylamine	J- / UJ to RRs/NDs	TRG	8/2/2006	17:00	8/3/2006	12:44	low LCS/LCSD ave recovery (49%)	329496
EB-503	20608020314	EQBK	SW8270C		W	n-Nitrosodi-n-propylamine	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	17:00	8/3/2006	15:02	equipment blank contamination (0.000728 J mg/L)	329496
EB-503	20608020314	EQBK	SW8270C		W	o-Cresol	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	17:00	8/3/2006	15:02	equipment blank contamination (0.000662 J mg/L)	329496
FB-503	20608020313	FLDBK	SW8270C		W	o-Cresol	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	17:00	8/3/2006	14:47	field blank contamination (0.000758 J mg/L)	329496
LCSD for HBN 329313 [EXTO/1437]	396704	LCSD	SW8270C		W	o-Cresol	J- / UJ to RRs/NDs	TRG	8/2/2006	17:00	8/3/2006	12:44	low LCS/LCSD ave recovery (57%)	329496
EB-503	20608020314	EQBK	SW8270C		W	Phenol	U to RRs < 5 x BlankEquivConc (none)	TRG	8/2/2006	17:00	8/3/2006	15:02	equipment blank contamination (0.000702 J mg/L)	329496

## ATTACHMENT 1

LCSD for HBN 329313 [EXTO/1437]	396704	LCSD	SW8270C		W	Phenol	J- / UJ to RRs/NDs	TRG	8/2/2006	17:00	8/3/2006	12:44	low LCS/LCSD ave recovery (26%)	329496
x	C0362	ICAL1	SW8270C			Pyridine	J- / UJ to RRs/NDs	SVOC			7/26/06	13:38	poor calibration fit (%RSD=39)	
LCSD for HBN 329313 [EXTO/1437]	396704	LCSD	SW8270C		W	Pyridine	J- / UJ to RRs/NDs	TRG	8/2/2006	17:00	8/3/2006	12:44	low LCS/LCSD ave recovery (43%)	329496
SB4MW07-007	20608020302	SMP	SW8270C		W	2-Fluorophenol	J- / UJ to RRs/NDs for Acid (phenolic) analytes	SUR	8/2/2006	17:00	8/3/2006	12:59	low Acid SU recovery (48%)	329496
SB4MW07-007	20608020302	SMP	SW8270C		W	Phenol-d5	J- / UJ to RRs/NDs for Acid (phenolic) analytes	SUR	8/2/2006	17:00	8/3/2006	12:59	low Acid SU recovery (40%)	329496
SG2MW13-013	20608020303	SMP	SW8270C		W	2-Fluorophenol	J- / UJ to RRs/NDs for Acid (phenolic) analytes	SUR	8/2/2006	17:00	8/3/2006	13:15	low Acid SU recovery (46%)	329496
SG2MW13-013	20608020303	SMP	SW8270C		W	Phenol-d5	J- / UJ to RRs/NDs for Acid (phenolic) analytes	SUR	8/2/2006	17:00	8/3/2006	13:15	low Acid SU recovery (31%)	329496
PZ-500	20608020304	SMP	SW8270C		W	2-Fluorophenol	J- / UJ to RRs/NDs for Acid (phenolic) analytes	SUR	8/2/2006	17:00	8/3/2006	13:30	low Acid SU recovery (44%)	329496
PZ-500	20608020304	SMP	SW8270C		W	Phenol-d5	J- / UJ to RRs/NDs for Acid (phenolic) analytes	SUR	8/2/2006	17:00	8/3/2006	13:30	low Acid SU recovery (30%)	329496
NF3PZ06-006	20608020305	SMP	SW8270C		W	2-Fluorophenol	J- / UJ to RRs/NDs for Acid (phenolic) analytes	SUR	8/2/2006	17:00	8/3/2006	13:45	low Acid SU recovery (48%)	329496
NF3PZ06-006	20608020305	SMP	SW8270C		W	Phenol-d5	J- / UJ to RRs/NDs for Acid (phenolic) analytes	SUR	8/2/2006	17:00	8/3/2006	13:45	low Acid SU recovery (34%)	329496
SF5MW10-010	20608020312	SMP	SW8270C		W	2-Fluorophenol	J- / UJ to RRs/NDs for Acid (phenolic) analytes	SUR	8/2/2006	17:00	8/3/2006	14:31	low Acid SU recovery (40%)	329496
SF5MW10-010	20608020312	SMP	SW8270C		W	Phenol-d5	J- / UJ to RRs/NDs for Acid (phenolic) analytes	SUR	8/2/2006	17:00	8/3/2006	14:31	low Acid SU recovery (26%)	329496

## DATA VALIDATION CHECKLIST

(Level III)

Client Name: Pastor, Behling, & Wheeler	Project Number: 1352		
Property Location: Gulfco Superfund Site	Project Manager: Eric Pastor		
Laboratory: GCAL – Baton Rouge, LA	Laboratory Job No.: 206080302		
Reviewer: Taryn Scholz/ Don Flory (QAA, L.L.C.)	Date Checked: 9/27/06		
ITEM	Yes	No	NA
<b>Comment Number</b>			
<b>Chain of Custody (COC) and Sample Receipt at Lab</b>			
1. Signed COCs included and seals used?	x		
2. Date and time of sample collection included?	x		
3. All samples listed on the COC analyzed for in accordance with the RI/FS Work Plan?	x		
4. Field QC sample frequency met project requirements?		x	
5. Sample receipt temperature 2-6°C?	x		
6. Samples preserved appropriately?	x		
7. Samples received within 2 days of collection?	x		
8. No problems noted?	x		
<b>Laboratory Report and Data Package</b>			
9. Signed Case Narrative included?	x		
10. No analytical discrepancies noted in case narrative?		x	
11. Elevated reporting limits justified?	x		
12. MDLs reasonable per DCS?	x		
13. Calibration data acceptable?		x	
14. ICV and CCV recoveries within project control limits?		x	
15. ICB and CCB results <RL (MQL)?	x		
16. Internal standard areas within project control limits?	x		
<b>Laboratory EDD</b>			
17. Field sample IDs included?	x		
18. Laboratory sample IDs included?	x		
19. Date of analysis included?	x		
20. Date of sample preparation included?	x		
21. Samples prepared within holding time?	x		
22. Samples analyzed within holding time?	x		
23. Detection limit and quantitation limit included?	x		
24. Project target limits achieved?		x	
25. No elevated reporting limits?		x	
26. Method references included?	x		
27. Sample matrix included?	x		
28. Sample result units reported correctly?	x		
29. Soil/ sediment results corrected for dry-weight?			x
30. Method blank results <RL (MDL)?		x	
31. Equipment and Trip blank results <RL (MDL)?		x	
32. All COIs included in LCS?	x		
33. LCS recovery within project control limits?		x	
34. MS/MSD recoveries within project control limits?		x	
35. LCS/LCSD RPDs within project control limits?	x		
36. MS/MSD RPDs within project control limits?	x		
37. Laboratory duplicate RPDs/Diffs within project control limits?	x		
38. Field duplicate RPDs/Diffs within project control limits?			x
39. Surrogate recoveries within project control limits?		s	
40. Completeness percentage within project limits?		x	

<p>Definitions:</p> <p><b>CCB</b> – Continuing Calibration Blank; <b>CCV</b> – Continuing Calibration Verification; <b>COI</b> – Compounds of Interest; <b>DCS</b> – Detectability Check Sample; <b>ICB</b> – Initial Calibration Blank; <b>ICV</b> – Initial Calibration Verification; <b>LCS</b> – Laboratory Control Sample; <b>LCSD</b> – Laboratory Control Sample Duplicate; <b>MDL</b> – Method Detection Limit; <b>MS/MSD</b> – Matrix Spike/Matrix Spike Duplicate; <b>RL</b> – Reporting Limit; <b>RPD</b> – Relative Percent Difference</p>			
<b>COMMENTS</b>			
Level IV Check - GC/MS RRF for instrument calibration also included in Level III checks after deficiencies noted in first samples – see attached for deficiencies noted			
2. Four TBs have no Collection Date on Chain or in EDD.			
4. No MS/MSD or field duplicate collected with these samples. Frequency for all GW sample sets is > 1-to-20 for field duplicates but only 1-to-27 for MS/MSD for SVOC, Pest, PCB. (The lab chose a GW sample to prepare an MS/MSD for internal QC for Metals and VOC.) This is not considered to significantly affect data quality.			
10. Issues noted for all parameters. All are based on laboratory limits, which do not affect flagging for this site, except:			
VOC – 2CVE not recovered in MS/MSD for batch 330206 (This MS/MSD prepared using a Pond SW sample from the site and was not used to assess data quality for this set of GWs.)			
Pest –RT window originally set too wide, hardcopy revisions submitted for results for 1 sample (first EDD not submitted until after problem identified so no revision required.)			
SVOC – SU misidentified in one sample, hardcopy revisions and revised EDD submitted 9/29/06			
11. One VOC sample diluted due to analytes above the calibration range. One metals sample diluted due to chemical or physical interference (assume second sample diluted for same reason).			
24. Chloride actual MDL of 0.53 mg/L slightly above target of 0.333 mg/L but no PSV for this analyte; Sulfate actual MDL of 1.9 mg/L slightly above target of 1.67 mg/L but no PSV for this analyte; Copper actual MDL (0.003 mg/L) slightly above Target (0.002 mg/L) but below PSV (0.0036 mg/L)			
25. Two metals samples diluted 2-5x for all metals. One sample diluted 2x for Strontium only (due to high conc). One VOC sample diluted 10x.			
28. For organics, the SDLs and SQLs are in mg/L as requested for samples logged in after 7/31/06; however, the user should note that the MDLs and MQLs are in ug/L and this is not accounted for in the Prep Factor or Dilution Factor.			
31. The GW equipment and field blanks have low levels of contamination for numerous analytes, which (for the organic contaminants) is attributed to the location of the site. Note that, in some cases, these contaminants were not detected in the samples or were also present in the laboratory blanks.			
32. All analytes routinely spiked by lab are included as per QAPP. This is every TA except n-Butyl alcohol, Toxaphene, and the 5 middle Aroclors.			
34. No MS/MSD collected with this set; The lab prepared a MS/MSD pair using a sample from this set for Metals and Cr(VI). LCS/LCSD reported for other parameters. In the hardcopy report, some MS/MSD are included that are from another site or another sampling event for this site. Only MS/MSD prepared using a sample of the same media (i.e., GW, ICWW SW, Pond SW, ICWW Sediment, OnSite Sediment, or Soil Borings) that was collected at the same time were used to assess data quality for a given set of samples.			
40. Low analyte-level completeness for two SVOC poor performers (Benzoic acid and Benzidine)			

**SET SUMMARY**  
**Laboratory Job No.: 206080302**

8	Number of Field Samples including Field Duplicates (0)
0	Number of Field MS/MSD Pairs
2	Number of Equipment Rinsate Blanks
2	Number of Field Blanks
6	Number of VOC Trip Blanks
6	Number of Parameters (VOC, SVOC, Pesticides, Aroclors, Metals-Total, Cr(VI)-Total)
200	Number of Target Analytes per Sample
1147	Total Measurements for Field Samples (Only VOC and Cr(VI) requested for one sample, Only SVOC requested for another sample, Only Cr(VI) requested for third sample)
863	Number of measurements with no validation qualifier (i.e., "none" in EDD)
189	Number of measurements with UJ flag (for various analytes due to low laboratory spike, matrix spike and/or surrogate spike recovery; poor calibration fit and/or negative drift)
18	Number of measurements with UJ flag and an elevated SDL (for 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol, and n-Butyl alcohol due to poor instrument response, i.e., low RRF)
0	Number of measurements with J- flag
45	Number of measurements with J flag (due solely to result being between the SDL and SQL)
2	Number of measurements with J flag (due to result being between the SDL and SQL plus extremely low laboratory spike recovery for one Benzoic Acid result and low laboratory spike and surrogate spike recovery for one m,p-cresol result)
0	Number of measurements with J+ flag
25	Number of measurements with U flag (due to blank contamination; analytes affected include 2-Methylnaphthalene, Acetone, Di-n-butyl phthalate, gamma-BHC (Lindane), Mercury, Methylene chloride, Nickel, Selenium, and Zinc)
0	Number of measurements with NS flag
5	Number of measurements with R flag (for the five Benzoic Acid non-detects due to extremely low laboratory spike recovery of 8%)
100%	Completeness-to-date on a sample level (percentage of groundwater samples with usable data, project goal 90%)
67%	Completeness-to-date on an analyte level (percentage of groundwater samples with usable data for a specific analyte, project goal 80%) – Benzidine
59%	Completeness-to-date on an analyte level (percentage of groundwater samples with usable data for a specific analyte, project goal 80%) – Benzoic Acid
100%	Completeness-to-date on an analyte level (percentage of groundwater samples with usable data for a specific analyte, project goal 80%) – all other target analytes

Usability: All data suitable as qualified for the intended use except for the five non-detects for Benzoic Acid. Data for 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol, and n-Butyl alcohol are usable with an elevated reporting limit for the non-detects (as given in the Electronic Data Deliverable). Measurements qualified with a U-flag should be considered not present at the concentration reported.

## QUALIFIED DATA TABLE

Field Sample Identification	Total or dissolved	Analyte	Data Qualifier	Reason for Qualification
NC3PZ02-002	total	Antimony	J	result is between SDL and SQL
NC3PZ02-002	total	Barium	J	result is between SDL and SQL
NC3PZ02-002	total	Boron	J	result is between SDL and SQL
NC3PZ02-002	total	Cobalt	J	result is between SDL and SQL
NC3PZ02-002	total	Lithium	J	result is between SDL and SQL
NC3PZ02-002	total	Nickel	U	equipment blank contamination (0.00089 B mg/L), field blank contamination (0.00088 B mg/L), result is between SDL and SQL
NC3PZ02-002	total	Silver	J	result is between SDL and SQL
NC3PZ02-002	total	Thallium	J	result is between SDL and SQL
NC3PZ02-002	total	Mercury	U	laboratory blank contamination (0.00011 B mg/L), low MS/MSD ave recovery (54%), result is between SDL and SQL
NC3PZ02-002		Aroclor-1016	UJ	low SU recovery (47%)
NC3PZ02-002		Aroclor-1221	UJ	low SU recovery (47%)
NC3PZ02-002		Aroclor-1232	UJ	low SU recovery (47%)
NC3PZ02-002		Aroclor-1242	UJ	low SU recovery (47%)
NC3PZ02-002		Aroclor-1248	UJ	low SU recovery (47%)
NC3PZ02-002		Aroclor-1254	UJ	low SU recovery (47%)
NC3PZ02-002		Aroclor-1260	UJ	low SU recovery (47%)
NC3PZ02-002		1,1,2,2-Tetrachloroethane	UJ	calibration drift (%D= -25)
NC3PZ02-002		1,2,3-Trichloropropane	UJ	calibration drift (%D= -21)
NC3PZ02-002		1,2-Dibromo-3-chloropropane	UJ	calibration drift (%D= -22)
NC3PZ02-002		2-Butanone	UJ	calibration drift (%D= -31)
NC3PZ02-002		2-Hexanone	UJ	calibration drift (%D= -25)
NC3PZ02-002		4-Methyl-2-pentanone	UJ	calibration drift (%D= -35)
NC3PZ02-002		Acetone	U	field blank contamination (0.039 mg/L), calibration drift (%D= -27), result is between SDL and SQL
NC3PZ02-002		Acrolein	UJ	calibration drift (%D= -21)
NC3PZ02-002		Acrylonitrile	UJ	calibration drift (%D= -23)
NC3PZ02-002		Chloromethane	UJ	calibration drift (%D= -26)
NC3PZ02-002		Dichlorodifluoromethane	UJ	calibration drift (%D= -22)
NC3PZ02-002		Methyl Acetate	UJ	calibration drift (%D= -31)
NC3PZ02-002		Methylene chloride	U	laboratory blank contamination (0.00229 J mg/L), result is between SDL and SQL
NC3PZ02-002		n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (GW); calibration drift (%D= -31)
NC3PZ02-002		tert-Butyl methyl ether (MTBE)	UJ	calibration drift (%D= -22)
NC3PZ02-002		trans-1,4-Dichloro-2-butene	UJ	calibration drift (%D= -23)
NC3PZ02-002		2,4,5-Trichlorophenol	UJ	2 low acid SU recoveries (43%, 36%)
NC3PZ02-002		2,4,6-Trichlorophenol	UJ	2 low acid SU recoveries (43%, 36%)
NC3PZ02-002		2,4-Dichlorophenol	UJ	2 low acid SU recoveries (43%, 36%)
NC3PZ02-002		2,4-Dimethylphenol	UJ	low LCS/LCSD ave recovery (52.5%), 2 Low acid SU recoveries (43%, 36%)
NC3PZ02-002		2,4-Dinitrophenol	UJ	low instrument response (low RRF); elevate SDL for NDs 5x (GW), 2 Low acid SU recoveries (43%, 36%)
NC3PZ02-002		2-Chlorophenol	UJ	low LCS/LCSD ave recovery (55%), 2 Low acid SU recoveries (43%, 36%)
NC3PZ02-002		2-Nitrophenol	UJ	2 low acid SU recoveries (43%, 36%)
NC3PZ02-002		4,6-Dinitro-2-methylphenol	UJ	low instrument response (low RRF); elevate SDL for NDs 3x (GW), 2 Low acid SU recoveries (43%, 36%)
NC3PZ02-002		4-Chloro-3-methylphenol	UJ	2 low acid SU recoveries (43%, 36%)
NC3PZ02-002		4-Nitrophenol	UJ	low LCS/LCSD ave recovery (16.5%), 2 Low acid SU

## QUALIFIED DATA TABLE

Field Sample Identification	Total_or_dissolved	Analyte	Data Qualifier	Reason for Qualification
				recoveries (43%, 36%)
NC3PZ02-002		Benzoic acid	J	result is between SDL and SQL, extremely low LCS/LCSD ave recovery (7.5%), poor LCS/LCSD precision (46 RPD)
NC3PZ02-002		Benzyl alcohol	UJ	low LCS/LCSD ave recovery (53%)
NC3PZ02-002		Caprolactam	UJ	low LCS/LCSD ave recovery (20%)
NC3PZ02-002		Di-n-butyl phthalate	U	equipment blank contamination (0.000851 J mg/L), field blank contamination (0.000838 J mg/L), result is between SDL and SQL
NC3PZ02-002		Hexachlorocyclopentadiene	UJ	low LCS/LCSD ave recovery (42.5%)
NC3PZ02-002		Hexachloroethane	UJ	low LCS/LCSD ave recovery (59.5%)
NC3PZ02-002		m,p-Cresol	UJ	low LCS/LCSD ave recovery (34.5%), 2 Low acid SU recoveries (43%, 36%)
NC3PZ02-002		n-Nitrosodimethylamine	UJ	low LCS/LCSD ave recovery (50.5%)
NC3PZ02-002		o-Cresol	UJ	low LCS/LCSD ave recovery (42%), 2 Low acid SU recoveries (43%, 36%)
NC3PZ02-002		Pentachlorophenol	UJ	poor calibration fit (%RSD=26), 2 Low acid SU recoveries (43%, 36%)
NC3PZ02-002		Phenol	UJ	low LCS/LCSD ave recovery (20%), 2 Low acid SU recoveries (43%, 36%)
NC3PZ02-002		Pyridine	UJ	low LCS/LCSD ave recovery (21%)
ND1PZ03-003		2,4,5-Trichlorophenol	UJ	2 low acid SU recoveries (41%, 35%)
ND1PZ03-003		2,4,6-Trichlorophenol	UJ	2 low acid SU recoveries (41%, 35%)
ND1PZ03-003		2,4-Dichlorophenol	UJ	2 low acid SU recoveries (41%, 35%)
ND1PZ03-003		2,4-Dimethylphenol	UJ	low LCS/LCSD ave recovery (52.5%), 2 Low acid SU recoveries (41%, 35%)
ND1PZ03-003		2,4-Dinitrophenol	UJ	low instrument response (low RRF); elevate SDL for NDs 5x (GW), 2 Low acid SU recoveries (41%, 35%)
ND1PZ03-003		2-Chlorophenol	UJ	low LCS/LCSD ave recovery (55%), 2 Low acid SU recoveries (41%, 35%)
ND1PZ03-003		2-Methylnaphthalene	U	equipment blank contamination (0.000319 J mg/L), field blank contamination (0.000285 J mg/L), result is between SDL and SQL
ND1PZ03-003		2-Nitrophenol	UJ	2 low acid SU recoveries (41%, 35%)
ND1PZ03-003		4,6-Dinitro-2-methylphenol	UJ	low instrument response (low RRF); elevate SDL for NDs 3x (GW), 2 Low acid SU recoveries (41%, 35%)
ND1PZ03-003		4-Chloro-3-methylphenol	UJ	2 low acid SU recoveries (41%, 35%)
ND1PZ03-003		4-Nitrophenol	UJ	low LCS/LCSD ave recovery (16.5%), 2 Low acid SU recoveries (41%, 35%)
ND1PZ03-003		Benzoic acid	R	extremely low LCS/LCSD ave recovery (7.5%)
ND1PZ03-003		Benzyl alcohol	UJ	low LCS/LCSD ave recovery (53%)
ND1PZ03-003		Caprolactam	UJ	low LCS/LCSD ave recovery (20%)
ND1PZ03-003		Di-n-butyl phthalate	U	equipment blank contamination (0.000851 J mg/L), field blank contamination (0.000838 J mg/L), result is between SDL and SQL
ND1PZ03-003		Hexachlorocyclopentadiene	UJ	low LCS/LCSD ave recovery (42.5%)
ND1PZ03-003		Hexachloroethane	UJ	low LCS/LCSD ave recovery (59.5%)
ND1PZ03-003		m,p-Cresol	UJ	low LCS/LCSD ave recovery (34.5%), 2 Low acid SU recoveries (41%, 35%)
ND1PZ03-003		n-Nitrosodimethylamine	UJ	low LCS/LCSD ave recovery (50.5%)
ND1PZ03-003		o-Cresol	UJ	low LCS/LCSD ave recovery (42%), 2 Low acid SU recoveries (41%, 35%)
ND1PZ03-003		Pentachlorophenol	UJ	poor calibration fit (%RSD=26), 2 Low acid SU recoveries (41%, 35%)
ND1PZ03-003		Phenol	UJ	low LCS/LCSD ave recovery (20%), 2 Low acid SU recoveries (41%, 35%)
ND1PZ03-003		Pyridine	UJ	low LCS/LCSD ave recovery (21%)
ND4MW03-003	total	Aluminum	J	result is between SDL and SQL

## QUALIFIED DATA TABLE

Field Sample Identification	Total_or_dissolved	Analyte	Data Qualifier	Reason for Qualification
ND4MW03-003	total	Antimony	J	result is between SDL and SQL
ND4MW03-003	total	Cobalt	J	result is between SDL and SQL
ND4MW03-003	total	Nickel	J	result is between SDL and SQL
ND4MW03-003	total	Selenium	U	laboratory blank contamination (0.0049 B mg/L), equipment blank contamination (0.0048 B mg/L), result is between <u>SDL</u> and <u>SQL</u>
ND4MW03-003	total	Titanium	J	result is between SDL and SQL
ND4MW03-003	total	Mercury	U	laboratory blank contamination (0.00011 B mg/L), low MS/MSD ave recovery (54%), result is between <u>SDL</u> and <u>SQL</u>
ND4MW03-003		1,1,2,2-Tetrachloroethane	UJ	calibration drift (%D= -25)
ND4MW03-003		1,2,3-Trichloropropane	UJ	calibration drift (%D= -21)
ND4MW03-003		1,2-Dibromo-3-chloropropane	UJ	calibration drift (%D= -22)
ND4MW03-003		2-Butanone	UJ	calibration drift (%D= -31)
ND4MW03-003		2-Hexanone	UJ	calibration drift (%D= -25)
ND4MW03-003		4-Methyl-2-pentanone	UJ	calibration drift (%D= -35)
ND4MW03-003		Acetone	UJ	calibration drift (%D= -27)
ND4MW03-003		Acrolein	UJ	calibration drift (%D= -21)
ND4MW03-003		Acrylonitrile	UJ	calibration drift (%D= -23)
ND4MW03-003		Chloromethane	UJ	calibration drift (%D= -26)
ND4MW03-003		Dichlorodifluoromethane	UJ	calibration drift (%D= -22)
ND4MW03-003		Methyl Acetate	UJ	calibration drift (%D= -31)
ND4MW03-003		Methylene chloride	U	laboratory blank contamination (0.00229 J mg/L), result is between <u>SDL</u> and <u>SQL</u>
ND4MW03-003		n-Butyl alcohol	UJ	low instrument response (low RRF); elevate <u>SDL</u> for NDs 2x (GW); calibration drift (%D= -31)
ND4MW03-003		tert-Butyl methyl ether (MTBE)	UJ	calibration drift (%D= -22)
ND4MW03-003		trans-1,4-Dichloro-2-butene	UJ	calibration drift (%D= -23)
ND4MW03-003		2,4,5-Trichlorophenol	UJ	2 low acid SU recoveries (27%, 18%)
ND4MW03-003		2,4,6-Trichlorophenol	UJ	2 low acid SU recoveries (27%, 18%)
ND4MW03-003		2,4-Dichlorophenol	UJ	2 low acid SU recoveries (27%, 18%)
ND4MW03-003		2,4-Dimethylphenol	UJ	low LCS/LCSD ave recovery (52.5%), 2 Low acid SU recoveries (27%, 18%)
ND4MW03-003		2,4-Dinitrophenol	UJ	low instrument response (low RRF); elevate <u>SDL</u> for NDs 5x (GW), 2 Low acid SU recoveries (27%, 18%)
ND4MW03-003		2-Chlorophenol	UJ	low LCS/LCSD ave recovery (55%), 2 Low acid SU recoveries (27%, 18%)
ND4MW03-003		2-Nitrophenol	UJ	2 low acid SU recoveries (27%, 18%)
ND4MW03-003		4,6-Dinitro-2-methylphenol	UJ	low instrument response (low RRF); elevate <u>SDL</u> for NDs 3x (GW), 2 Low acid SU recoveries (27%, 18%)
ND4MW03-003		4-Chloro-3-methylphenol	UJ	2 low acid SU recoveries (27%, 18%)
ND4MW03-003		4-Nitrophenol	UJ	low LCS/LCSD ave recovery (16.5%), 2 Low acid SU recoveries (27%, 18%)
ND4MW03-003		Benzoic acid	R	extremely low LCS/LCSD ave recovery (7.5%)
ND4MW03-003		Benzyl alcohol	UJ	low LCS/LCSD ave recovery (53%)
ND4MW03-003		Caprolactam	UJ	low LCS/LCSD ave recovery (20%)
ND4MW03-003		Hexachlorocyclopentadiene	UJ	low LCS/LCSD ave recovery (42.5%)
ND4MW03-003		Hexachloroethane	UJ	low LCS/LCSD ave recovery (59.5%)
ND4MW03-003		m,p-Cresol	UJ	low LCS/LCSD ave recovery (34.5%), 2 Low acid SU recoveries (27%, 18%)
ND4MW03-003		n-Nitrosodimethylamine	UJ	low LCS/LCSD ave recovery (50.5%)
ND4MW03-003		o-Cresol	UJ	low LCS/LCSD ave recovery (42%), 2 Low acid SU recoveries (27%, 18%)
ND4MW03-003		Pentachlorophenol	UJ	poor calibration fit (%RSD=26), 2 Low acid SU recoveries

## QUALIFIED DATA TABLE

Field Sample Identification	Total or dissolved	Analyte	Data Qualifier	Reason for Qualification
				(27%, 18%)
ND4MW03-003		Phenol	UJ	low LCS/LCSD ave recovery (20%), 2 Low acid SU recoveries (27%, 18%)
ND4MW03-003		Pyridine	UJ	low LCS/LCSD ave recovery (21%)
NE3MW05-005	total	Aluminum	J	result is between SDL and SQL
NE3MW05-005	total	Antimony	J	result is between SDL and SQL
NE3MW05-005	total	Chromium	J	result is between SDL and SQL
NE3MW05-005	total	Nickel	U	equipment blank contamination (0.00089 B mg/L), field blank contamination (0.00088 B mg/L), result is between SDL and SQL
NE3MW05-005	total	Silver	J	result is between SDL and SQL
NE3MW05-005	total	Thallium	J	result is between SDL and SQL
NE3MW05-005	total	Titanium	J	result is between SDL and SQL
NE3MW05-005	total	Mercury	UJ	low MS/MSD ave recovery (54%)
NE3MW05-005		4,4'-DDD	J	result is between SDL and SQL
NE3MW05-005		1,1,2,2-Tetrachloroethane	UJ	calibration drift (%D= -25)
NE3MW05-005		1,2,3-Trichloropropane	UJ	calibration drift (%D= -21)
NE3MW05-005		1,2,4-Trimethylbenzene	J	result is between SDL and SQL
NE3MW05-005		1,2-Dibromo-3-chloropropane	UJ	calibration drift (%D= -22)
NE3MW05-005		2-Butanone	UJ	calibration drift (%D= -31)
NE3MW05-005		2-Hexanone	UJ	calibration drift (%D= -25)
NE3MW05-005		4-Isopropyltoluene	J	result is between SDL and SQL
NE3MW05-005		4-Methyl-2-pentanone	UJ	calibration drift (%D= -35)
NE3MW05-005		Acetone	U	field blank contamination (0.039 mg/L), calibration drift (%D= -27), result is between SDL and SQL
NE3MW05-005		Acrolein	UJ	calibration drift (%D= -21)
NE3MW05-005		Acrylonitrile	UJ	calibration drift (%D= -23)
NE3MW05-005		Benzene	J	result is between SDL and SQL
NE3MW05-005		Chloromethane	UJ	calibration drift (%D= -26)
NE3MW05-005		Dichlorodifluoromethane	UJ	calibration drift (%D= -22)
NE3MW05-005		Isopropylbenzene (Cumene)	J	result is between SDL and SQL
NE3MW05-005		Methyl Acetate	UJ	calibration drift (%D= -31)
NE3MW05-005		Methylene chloride	U	laboratory blank contamination (0.00229 J mg/L), result is between SDL and SQL
NE3MW05-005		n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (GW); calibration drift (%D= -31)
NE3MW05-005		n-Propylbenzene	J	result is between SDL and SQL
NE3MW05-005		o-Xylene	J	result is between SDL and SQL
NE3MW05-005		Styrene	J	result is between SDL and SQL
NE3MW05-005		tert-Butyl methyl ether (MTBE)	UJ	calibration drift (%D= -22)
NE3MW05-005		trans-1,4-Dichloro-2-butene	UJ	calibration drift (%D= -23)
NE3MW05-005		2,4,5-Trichlorophenol	UJ	2 low acid SU recoveries (24%, 15%)
NE3MW05-005		2,4,6-Trichlorophenol	UJ	2 low acid SU recoveries (24%, 15%)
NE3MW05-005		2,4-Dichlorophenol	UJ	2 low acid SU recoveries (24%, 15%)
NE3MW05-005		2,4-Dimethylphenol	UJ	low LCS/LCSD ave recovery (52.5%), 2 Low acid SU recoveries (24%, 15%)
NE3MW05-005		2,4-Dinitrophenol	UJ	low instrument response (low RRF); elevate SDL for NDs 5x (GW), 2 Low acid SU recoveries (24%, 15%)
NE3MW05-005		2-Chlorophenol	UJ	low LCS/LCSD ave recovery (55%), 2 Low acid SU recoveries (24%, 15%)
NE3MW05-005		2-Nitrophenol	UJ	2 low acid SU recoveries (24%, 15%)
NE3MW05-005		4,6-Dinitro-2-methylphenol	UJ	low instrument response (low RRF); elevate SDL for NDs 3x (GW), 2 Low acid SU recoveries (24%, 15%)

## QUALIFIED DATA TABLE

Field Sample Identification	Total_or_dissolved	Analyte	Data Qualifier	Reason for Qualification
NE3MW05-005		4-Chloro-3-methylphenol	UJ	2 low acid SU recoveries (24%, 15%)
NE3MW05-005		4-Nitrophenol	UJ	low LCS/LCSD ave recovery (16.5%), 2 Low acid SU recoveries (24%, 15%)
NE3MW05-005		Acenaphthene	J	result is between SDL and SQL
NE3MW05-005		Anthracene	J	result is between SDL and SQL
NE3MW05-005		Benzoic acid	R	extremely low LCS/LCSD ave recovery (7.5%)
NE3MW05-005		Benzyl alcohol	UJ	low LCS/LCSD ave recovery (53%)
NE3MW05-005		Biphenyl	J	result is between SDL and SQL
NE3MW05-005		Caprolactam	UJ	low LCS/LCSD ave recovery (20%)
NE3MW05-005		Carbazole	J	result is between SDL and SQL
NE3MW05-005		Dibenzofuran	J	result is between SDL and SQL
NE3MW05-005		Fluorene	J	result is between SDL and SQL
NE3MW05-005		Hexachlorocyclopentadiene	UJ	low LCS/LCSD ave recovery (42.5%)
NE3MW05-005		Hexachloroethane	UJ	low LCS/LCSD ave recovery (59.5%)
NE3MW05-005		m,p-Cresol	J	result is between SDL and SQL, low LCS/LCSD ave recovery (34.5%), 2 Low acid SU recoveries (24%, 15%)
NE3MW05-005		n-Nitrosodimethylamine	UJ	low LCS/LCSD ave recovery (50.5%)
NE3MW05-005		o-Cresol	UJ	low LCS/LCSD ave recovery (42%), 2 Low acid SU recoveries (24%, 15%)
NE3MW05-005		Pentachlorophenol	UJ	poor calibration fit (%RSD=26), 2 Low acid SU recoveries (24%, 15%)
NE3MW05-005		Phenol	UJ	low LCS/LCSD ave recovery (20%), 2 Low acid SU recoveries (24%, 15%)
NE3MW05-005		Pyrene	J	result is between SDL and SQL
NE3MW05-005		Pyridine	UJ	low LCS/LCSD ave recovery (21%)
SA4PZ07-007		1,1,2,2-Tetrachloroethane	UJ	calibration drift (%D= -24)
SA4PZ07-007		1,2,3-Trichloropropane	UJ	calibration drift (%D= -24)
SA4PZ07-007		1,2-Dibromo-3-chloropropane	UJ	calibration drift (%D= -26)
SA4PZ07-007		2-Butanone	UJ	calibration drift (%D= -36), low LCS/LCSD ave recovery (55.5%)
SA4PZ07-007		2-Hexanone	UJ	calibration drift (%D= -30)
SA4PZ07-007		4-Methyl-2-pentanone	UJ	calibration drift (%D= -36)
SA4PZ07-007		Acetone	U	field blank contamination (0.039 mg/L), calibration drift (%D= -33)
SA4PZ07-007		Acrylonitrile	UJ	calibration drift (%D= -21)
SA4PZ07-007		Carbon disulfide	J	result is between SDL and SQL
SA4PZ07-007		Methyl Acetate	UJ	calibration drift (%D= -24)
SA4PZ07-007		Methylene chloride	U	laboratory blank contamination (0.00143 J mg/L), result is between SDL and SQL
SA4PZ07-007		n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (GW)
SA4PZ07-007		tert-Butyl methyl ether (MTBE)	UJ	calibration drift (%D= -21)
SA4PZ07-007		trans-1,4-Dichloro-2-butene	UJ	calibration drift (%D= -26)
SE1MW08-008	total	Antimony	J	result is between SDL and SQL
SE1MW08-008	total	Cobalt	J	result is between SDL and SQL
SE1MW08-008	total	Nickel	J	result is between SDL and SQL
SE1MW08-008	total	Selenium	U	laboratory blank contamination (0.0049 B mg/L), equipment blank contamination (0.0048 B mg/L), result is between SDL and SQL
SE1MW08-008	total	Zinc	U	equipment blank contamination (0.0042 B mg/L), result is between SDL and SQL
SE1MW08-008	total	Mercury	U	laboratory blank contamination (0.00011 B mg/L), low MS/MSD ave recovery (54%), result is between SDL and SQL

## QUALIFIED DATA TABLE

Field Sample Identification	Total_or_dissolved	Analyte	Data Qualifier	Reason for Qualification
SE1MW08-008		1,1,2,2-Tetrachloroethane	UJ	calibration drift (%D= -24)
SE1MW08-008		1,2,3-Trichloropropane	UJ	calibration drift (%D= -24)
SE1MW08-008		1,2-Dibromo-3-chloropropane	UJ	calibration drift (%D= -26)
SE1MW08-008		2-Butanone	UJ	calibration drift (%D= -36), low LCS/LCSD ave recovery (55.5%)
SE1MW08-008		2-Hexanone	UJ	calibration drift (%D= -30)
SE1MW08-008		4-Methyl-2-pentanone	UJ	calibration drift (%D= -36)
SE1MW08-008		Acetone	U	field blank contamination (0.039 mg/L), calibration drift (%D= -33), result is between SDL and SQL
SE1MW08-008		Acrylonitrile	UJ	calibration drift (%D= -21)
SE1MW08-008		Methyl Acetate	UJ	calibration drift (%D= -24)
SE1MW08-008		Methylene chloride	U	laboratory blank contamination (0.00143 J mg/L), result is between SDL and SQL
SE1MW08-008		n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (GW)
SE1MW08-008		tert-Butyl methyl ether (MTBE)	UJ	calibration drift (%D= -21)
SE1MW08-008		trans-1,4-Dichloro-2-butene	UJ	calibration drift (%D= -26)
SE1MW08-008		2,4,5-Trichlorophenol	UJ	2 low acid SU recoveries (27%, 22%)
SE1MW08-008		2,4,6-Trichlorophenol	UJ	2 low acid SU recoveries (27%, 22%)
SE1MW08-008		2,4-Dichlorophenol	UJ	2 low acid SU recoveries (27%, 22%)
SE1MW08-008		2,4-Dimethylphenol	UJ	low LCS/LCSD ave recovery (52.5%), 2 Low acid SU recoveries (27%, 22%)
SE1MW08-008		2,4-Dinitrophenol	UJ	low instrument response (low RRF); elevate SDL for NDs 5x (GW), 2 Low acid SU recoveries (27%, 22%)
SE1MW08-008		2-Chlorophenol	UJ	low LCS/LCSD ave recovery (55%), 2 Low acid SU recoveries (27%, 22%)
SE1MW08-008		2-Nitrophenol	UJ	2 low acid SU recoveries (27%, 22%)
SE1MW08-008		4,6-Dinitro-2-methylphenol	UJ	low instrument response (low RRF); elevate SDL for NDs 3x (GW), 2 Low acid SU recoveries (27%, 22%)
SE1MW08-008		4-Chloro-3-methylphenol	UJ	2 low acid SU recoveries (27%, 22%)
SE1MW08-008		4-Nitrophenol	UJ	low LCS/LCSD ave recovery (16.5%), 2 Low acid SU recoveries (27%, 22%)
SE1MW08-008		Benzoic acid	R	extremely low LCS/LCSD ave recovery (7.5%)
SE1MW08-008		Benzyl alcohol	UJ	low LCS/LCSD ave recovery (53%)
SE1MW08-008		Bis(2-Ethylhexyl)phthalate	J	result is between SDL and SQL
SE1MW08-008		Caprolactam	UJ	low LCS/LCSD ave recovery (20%)
SE1MW08-008		Hexachlorocyclopentadiene	UJ	low LCS/LCSD ave recovery (42.5%)
SE1MW08-008		Hexachloroethane	UJ	low LCS/LCSD ave recovery (59.5%)
SE1MW08-008		m,p-Cresol	UJ	low LCS/LCSD ave recovery (34.5%), 2 Low acid SU recoveries (27%, 22%)
SE1MW08-008		n-Nitrosodimethylamine	UJ	low LCS/LCSD ave recovery (50.5%)
SE1MW08-008		o-Cresol	UJ	low LCS/LCSD ave recovery (42%), 2 Low acid SU recoveries (27%, 22%)
SE1MW08-008		Pentachlorophenol	UJ	poor calibration fit (%RSD=26), 2 Low acid SU recoveries (27%, 22%)
SE1MW08-008		Phenol	UJ	low LCS/LCSD ave recovery (20%), 2 Low acid SU recoveries (27%, 22%)
SE1MW08-008		Pyridine	UJ	low LCS/LCSD ave recovery (21%)
SJ1MW15-015	total	Antimony	J	result is between SDL and SQL
SJ1MW15-015	total	Cobalt	J	result is between SDL and SQL
SJ1MW15-015	total	Nickel	J	result is between SDL and SQL
SJ1MW15-015	total	Vanadium	J	result is between SDL and SQL
SJ1MW15-015	total	Mercury	U	laboratory blank contamination (0.00011 B mg/L), low MS/MSD ave recovery (54%), result is between SDL and SQL

## QUALIFIED DATA TABLE

Field Sample Identification	Total or dissolved	Analyte	Data Qualifier	Reason for Qualification
				SQL
SJ1MW15-015		4,4'-DDE	J	result is between SDL and SQL
SJ1MW15-015		Endrin ketone	J	result is between SDL and SQL
SJ1MW15-015		gamma-BHC (Lindane)	U	field blank contamination (0.0000252 mg/L)
SJ1MW15-015		Heptachlor epoxide	J	result is between SDL and SQL
SJ1MW15-015		1,1,2,2-Tetrachloroethane	UJ	calibration drift (%D= -25)
SJ1MW15-015		1,2,3-Trichloropropane	UJ	calibration drift (%D= -21)
SJ1MW15-015		1,2-Dibromo-3-chloropropane	UJ	calibration drift (%D= -22)
SJ1MW15-015		2-Butanone	UJ	calibration drift (%D= -31)
SJ1MW15-015		2-Hexanone	UJ	calibration drift (%D= -25)
SJ1MW15-015		4-Methyl-2-pentanone	UJ	calibration drift (%D= -35)
SJ1MW15-015		Acetone	UJ	calibration drift (%D= -27)
SJ1MW15-015		Acrolein	UJ	calibration drift (%D= -21)
SJ1MW15-015		Acrylonitrile	UJ	calibration drift (%D= -23)
SJ1MW15-015		Chloromethane	UJ	calibration drift (%D= -26)
SJ1MW15-015		Dichlorodifluoromethane	UJ	calibration drift (%D= -22)
SJ1MW15-015		Methyl Acetate	UJ	calibration drift (%D= -31)
SJ1MW15-015		Methylene chloride	U	laboratory blank contamination (0.00229 J mg/L), result is between SDL and SQL
SJ1MW15-015		n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (GW); calibration drift (%D= -31)
SJ1MW15-015		tert-Butyl methyl ether (MTBE)	UJ	calibration drift (%D= -22)
SJ1MW15-015		trans-1,4-Dichloro-2-butene	UJ	calibration drift (%D= -23)
SJ1MW15-015		2,4,5-Trichlorophenol	UJ	2 low acid SU recoveries (24%, 20%)
SJ1MW15-015		2,4,6-Trichlorophenol	UJ	2 low acid SU recoveries (24%, 20%)
SJ1MW15-015		2,4-Dichlorophenol	UJ	2 low acid SU recoveries (24%, 20%)
SJ1MW15-015		2,4-Dimethylphenol	UJ	low LCS/LCSD ave recovery (52.5%), 2 Low acid SU recoveries (24%, 20%)
SJ1MW15-015		2,4-Dinitrophenol	UJ	low instrument response (low RRF); elevate SDL for NDs 5x (GW), 2 Low acid SU recoveries (24%, 20%)
SJ1MW15-015		2-Chlorophenol	UJ	low LCS/LCSD ave recovery (55%), 2 Low acid SU recoveries (24%, 20%)
SJ1MW15-015		2-Methylnaphthalene	U	equipment blank contamination (0.000319 J mg/L), field blank contamination (0.000285 J mg/L), result is between SDL and SQL
SJ1MW15-015		2-Nitrophenol	UJ	2 low acid SU recoveries (24%, 20%)
SJ1MW15-015		4,6-Dinitro-2-methylphenol	UJ	low instrument response (low RRF); elevate SDL for NDs 3x (GW), 2 Low acid SU recoveries (24%, 20%)
SJ1MW15-015		4-Chloro-3-methylphenol	UJ	2 low acid SU recoveries (24%, 20%)
SJ1MW15-015		4-Nitrophenol	UJ	low LCS/LCSD ave recovery (16.5%), 2 Low acid SU recoveries (24%, 20%)
SJ1MW15-015		Benzoic acid	R	extremely low LCS/LCSD ave recovery (7.5%)
SJ1MW15-015		Benzyl alcohol	UJ	low LCS/LCSD ave recovery (53%)
SJ1MW15-015		Caprolactam	UJ	low LCS/LCSD ave recovery (20%)
SJ1MW15-015		Di-n-butyl phthalate	U	equipment blank contamination (0.000851 J mg/L), field blank contamination (0.000838 J mg/L), result is between SDL and SQL
SJ1MW15-015		Hexachlorocyclopentadiene	UJ	low LCS/LCSD ave recovery (42.5%)
SJ1MW15-015		Hexachloroethane	UJ	low LCS/LCSD ave recovery (59.5%)
SJ1MW15-015		m,p-Cresol	UJ	low LCS/LCSD ave recovery (34.5%), 2 Low acid SU recoveries (24%, 20%)
SJ1MW15-015		n-Nitrosodimethylamine	UJ	low LCS/LCSD ave recovery (50.5%)
SJ1MW15-015		o-Cresol	UJ	low LCS/LCSD ave recovery (42%), 2 Low acid SU recoveries (24%, 20%)

## QUALIFIED DATA TABLE

Field Sample Identification	Total_or_dissolved	Analyte	Data Qualifier	Reason for Qualification
SJ1MW15-015		Pentachlorophenol	UJ	poor calibration fit (%RSD=26), 2 Low acid SU recoveries (24%, 20%)
SJ1MW15-015		Phenol	UJ	low LCS/LCSD ave recovery (20%), 2 Low acid SU recoveries (24%, 20%)
SJ1MW15-015		Pyridine	UJ	low LCS/LCSD ave recovery (21%)

## ATTACHMENT 1

Sample_ID	Lab_Sample_ID	Test_type_code	Analytical_Method	Total_or_dissolved	Matrix	Parameter	Valid_qualifier	Result_type_code	Prep_date	Prep_time	Analysis_Date	Analysis_Time	QC_comment	QC_Batch
MB for HBN 329498 [DIGM/12357]	397278	LB	SW6010B	total	W	Barium	U to RRs < 5 x BlankEquivConc (none)	TRG	8/3/2006	14:05	8/5/2006	15:08	laboratory blank contamination (0.00042 B mg/L)	329621
EB504	20608030216	EQBK	SW6010B	total	W	Barium	U to RRs < 5 x BlankEquivConc (none)	TRG	8/3/2006	14:05	8/5/2006	17:37	equipment blank contamination (0.018 B mg/L)	329621
FB-505	20608030210	FLDBK	SW6010B	total	W	Barium	U to RRs < 5 x BlankEquivConc (none)	TRG	8/3/2006	14:05	8/5/2006	17:09	field blank contamination (0.00072 B mg/L)	329621
MB for HBN 329498 [DIGM/12357]	397278	LB	SW6010B	total	W	Beryllium	U to RRs < 5 x BlankEquivConc (none)	TRG	8/3/2006	14:05	8/5/2006	15:08	laboratory blank contamination (0.00019 B mg/L)	329621
EB-505	20608030211	EQBK	SW6010B	total	W	Beryllium	U to RRs < 5 x BlankEquivConc (none)	TRG	8/3/2006	14:05	8/5/2006	17:16	equipment blank contamination (0.00022 B mg/L)	329621
EB504	20608030216	EQBK	SW6010B	total	W	Beryllium	U to RRs < 5 x BlankEquivConc (none)	TRG	8/3/2006	14:05	8/5/2006	17:37	equipment blank contamination (0.00021 B mg/L)	329621
FB-505	20608030210	FLDBK	SW6010B	total	W	Beryllium	U to RRs < 5 x BlankEquivConc (none)	TRG	8/3/2006	14:05	8/5/2006	17:09	field blank contamination (0.00016 B mg/L)	329621
EB504	20608030216	EQBK	SW6010B	total	W	Boron	U to RRs < 5 x BlankEquivConc (none)	TRG	8/3/2006	14:05	8/5/2006	17:37	equipment blank contamination (0.02 B mg/L)	329621
FB-504	20608030218	FLDBK	SW6010B	total	W	Boron	U to RRs < 5 x BlankEquivConc (none)	TRG	8/3/2006	14:05	8/5/2006	17:44	field blank contamination (0.015 B mg/L)	329621
MB for HBN 329498 [DIGM/12357]	397278	LB	SW6010B	total	W	Hardness	U to RRs < 5 x BlankEquivConc (none)	TRG	8/3/2006	14:05	8/5/2006	15:08	laboratory blank contamination (0.19 B mg/L)	329621
EB-505	20608030211	EQBK	SW6010B	total	W	Hardness	U to RRs < 5 x BlankEquivConc (none)	TRG	8/3/2006	14:05	8/5/2006	17:16	equipment blank contamination (0.29 B mg/L)	329621
EB504	20608030216	EQBK	SW6010B	total	W	Hardness	U to RRs < 5 x BlankEquivConc (none)	TRG	8/3/2006	14:05	8/5/2006	17:37	equipment blank contamination (0.69 mg/L)	329621
FB-505	20608030210	FLDBK	SW6010B	total	W	Hardness	U to RRs < 5 x BlankEquivConc (none)	TRG	8/3/2006	14:05	8/5/2006	17:09	field blank contamination (0.31 B mg/L)	329621
NC3PZ02-002(397124MSD)	397293	MSD	SW6010B	total	W	Hardness	none (waived due to high parent conc)	TRG	8/3/2006	14:05	8/8/2006	17:35	extremely low MS/MSD ave recovery (13.5%)	329771
NC3PZ02-002(397124MSD)	397293	MSD	SW6010B	total	W	Lithium	none (waived due to high parent conc)	TRG	8/3/2006	14:05	8/8/2006	17:35	high MS/MSD ave recovery (131.5%)	329771
EB504	20608030216	EQBK	SW6010B	total	W	Manganese	U to RRs < 5 x BlankEquivConc (none)	TRG	8/3/2006	14:05	8/5/2006	17:37	equipment blank contamination (0.0019 B mg/L)	329621
EB-505	20608030211	EQBK	SW6010B	total	W	Nickel	U to RRs < 5 x BlankEquivConc	TRG	8/3/2006	14:05	8/5/2006	17:16	equipment blank contamination (0.00089 B mg/L)	329621
FB-505	20608030210	FLDBK	SW6010B	total	W	Nickel	U to RRs < 5 x BlankEquivConc	TRG	8/3/2006	14:05	8/5/2006	17:09	field blank contamination (0.00088 B mg/L)	329621
MB for HBN 329498 [DIGM/12357]	397278	LB	SW6010B	total	W	Selenium	U to RRs < 5 x BlankEquivConc	TRG	8/3/2006	14:05	8/5/2006	15:08	laboratory blank contamination (0.0049 B mg/L)	329621

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EB504	20608030216	EQBK	SW6010B	total	W	Selenium	U to RRs < 5 x BlankEquivConc	TRG	8/3/2006	14:05	8/5/2006	17:37	equipment blank contamination (0.0048 B mg/L)	329621
NC3PZ02-002(397124MSD)	397293	MSD	SW6010B	total	W	Strontium	none (waived due to high parent conc)	TRG	8/3/2006	14:05	8/8/2006	17:35	high MS/MSD ave recovery (157%)	329771
EB504	20608030216	EQBK	SW6010B	total	W	Zinc	U to RRs < 5 x BlankEquivConc	TRG	8/3/2006	14:05	8/5/2006	17:37	equipment blank contamination (0.0042 B mg/L)	329621
MB for HBN 329499 [DIGM/12358]	397282	LB	SW7470A	total	W	Mercury	U to RRs < 5 x BlankEquivConc	TRG	8/3/2006	14:05	8/3/2006	17:36	laboratory blank contamination (0.00011 B mg/L)	329515
NC3PZ02-002(397124MSD)	397294	MSD	SW7470A	total	W	Mercury	J- / UJ to RRs/NDs	TRG	8/3/2006	14:05	8/3/2006	17:42	low MS/MSD ave recovery (54%)	329515
NC3PZ02-002	20608030204	SMP	SW8081A		W	Decachlorobiphenyl	none (only one of multiple surrogates is deficient)	SUR	8/3/2006	12:00	8/5/2006	21:26	low SU recovery (47%)	329781
FB-504	20608030218	FLDBK	SW8081A		W	gamma-BHC (Lindane)	U to RRs < 5 x BlankEquivConc	TRG	8/3/2006	12:00	8/6/2006	1:39	field blank contamination (0.0000252 mg/L)	329781
NC3PZ02-002	20608030204	SMP	SW8082		W	Decachlorobiphenyl	J- / UJ to RRs/NDs	SUR	8/3/2006	12:00	8/5/2006	21:26	low SU recovery (47%)	329782
x	U8715	CCV1	SW8260B			1,1,2,2-Tetrachloroethane	J- / UJ to RRs/NDs	VOC			8/10/06	8:26	calibration drift (%D= -25)	
x	U8762	CCV1	SW8260B			1,1,2,2-Tetrachloroethane	J- / UJ to RRs/NDs	VOC			8/11/06	7:39	calibration drift (%D= -24)	
x	U8715	CCV1	SW8260B			1,2,3-Trichloropropane	J- / UJ to RRs/NDs	VOC			8/10/06	8:26	calibration drift (%D= -21)	
x	U8762	CCV1	SW8260B			1,2,3-Trichloropropane	J- / UJ to RRs/NDs	VOC			8/11/06	7:39	calibration drift (%D= -24)	
x	U8715	CCV1	SW8260B			1,2-Dibromo-3-chloropropane	J- / UJ to RRs/NDs	VOC			8/10/06	8:26	calibration drift (%D= -22)	
x	U8762	CCV1	SW8260B			1,2-Dibromo-3-chloropropane	J- / UJ to RRs/NDs	VOC			8/11/06	7:39	calibration drift (%D= -26)	
x	U8715	CCV1	SW8260B			2-Butanone	J- / UJ to RRs/NDs	VOC			8/10/06	8:26	calibration drift (%D= -31)	
x	U8762	CCV1	SW8260B			2-Butanone	J- / UJ to RRs/NDs	VOC			8/11/06	7:39	calibration drift (%D= -36)	
LCSD for HBN 330298 [MSV/8848]	400090	LCSD	SW8260B		W	2-Butanone	J- / UJ to RRs/NDs	TRG			8/11/2006	8:41	low LCS/LCSD ave recovery (55.5%)	330298
x	U8715	CCV1	SW8260B			2-Hexanone	J- / UJ to RRs/NDs	VOC			8/10/06	8:26	calibration drift (%D= -25)	
x	U8762	CCV1	SW8260B			2-Hexanone	J- / UJ to RRs/NDs	VOC			8/11/06	7:39	calibration drift (%D= -30)	
x	U8715	CCV1	SW8260B			4-Methyl-2-pentanone	J- / UJ to RRs/NDs	VOC			8/10/06	8:26	calibration drift (%D= -35)	

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x	U8762	CCV1	SW8260B		4-Methyl-2-pentanone	J- / UJ to RRs/NDs	VOC			8/11/06	7:39	calibration drift (%D= -36)	
x	U8715	CCV1	SW8260B		Acetone	J- / UJ to RRs/NDs	VOC			8/10/06	8:26	calibration drift (%D= -27)	
x	U8762	CCV1	SW8260B		Acetone	J- / UJ to RRs/NDs	VOC			8/11/06	7:39	calibration drift (%D= -33)	
FB-504	20608030218	FLDBK	SW8260B	W	Acetone	U to RRs < 10 x BlankEquivConc	TRG			8/4/2006	5:29	field blank contamination (0.039 mg/L)	329530
x	U8715	CCV1	SW8260B		Acrolein	J- / UJ to RRs/NDs	VOC			8/10/06	8:26	calibration drift (%D= -21)	
x	U8715	CCV1	SW8260B		Acrylonitrile	J- / UJ to RRs/NDs	VOC			8/10/06	8:26	calibration drift (%D= -23)	
x	U8762	CCV1	SW8260B		Acrylonitrile	J- / UJ to RRs/NDs	VOC			8/11/06	7:39	calibration drift (%D= -21)	
x	U8715	CCV1	SW8260B		Bromomethane	J+ to RRs (none)	VOC			8/10/06	8:26	calibration drift (%D= 93)	
x	U8762	CCV1	SW8260B		Bromomethane	J+ to RRs (none)	VOC			8/11/06	7:39	calibration drift (%D= 156)	
LCSD for HBN 330206 [MSV/8840]	399714	LCSD	SW8260B	W	Bromomethane	J+ to RRs (none)	TRG			8/10/2006	9:26	high LCS/LCSD ave recovery (266.5%)	330206
LCSD for HBN 330298 [MSV/8848]	400090	LCSD	SW8260B	W	Bromomethane	J+ to RRs (none)	TRG			8/11/2006	8:41	high LCS/LCSD ave recovery (279.5%)	330298
x	U8715	CCV1	SW8260B		Chloromethane	J- / UJ to RRs/NDs	VOC			8/10/06	8:26	calibration drift (%D= -26)	
x	U8715	CCV1	SW8260B		Dichlorodifluoromethane	J- / UJ to RRs/NDs	VOC			8/10/06	8:26	calibration drift (%D= -22)	
x	U8715	CCV1	SW8260B		Methyl acetate	J- / UJ to RRs/NDs	VOC			8/10/06	8:26	calibration drift (%D= -31)	
x	U8762	CCV1	SW8260B		Methyl acetate	J- / UJ to RRs/NDs	VOC			8/11/06	7:39	calibration drift (%D= -24)	
MB for HBN 330206 [IMSV/8840]	399712	LB	SW8260B	W	Methylene chloride	U to RRs < 10 x BlankEquivConc	TRG			8/10/2006	10:17	laboratory blank contamination (0.00229 J mg/L)	330206
MB for HBN 330298 [IMSV/8848]	400088	LB	SW8260B	W	Methylene chloride	U to RRs < 10 x BlankEquivConc	TRG			8/11/2006	9:33	laboratory blank contamination (0.00143 J mg/L)	330298
x	U8715	CCV1	SW8260B		MTBE	J- / UJ to RRs/NDs	VOC			8/10/06	8:26	calibration drift (%D= -22)	
x	U8762	CCV1	SW8260B		MTBE	J- / UJ to RRs/NDs	VOC			8/11/06	7:39	calibration drift (%D= -21)	
x	U8718	CCV2	SW8260B		n-Butyl alcohol	J- / UJ to RRs/NDs	App9			8/10/06	9:51	calibration drift (%D= -31)	

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x	U7857	ICAL2	SW8260B		n-Butyl alcohol	J / UJ to RRs/NDs	App9			7/21/06	8:08	low instrument response (low RRF); elevate SDL for NDs 2x (GW)	
x	U8715	CCV1	SW8260B		trans-1,4-Dichloro-2-butene	J- / UJ to RRs/NDs	VOC			8/10/06	8:26	calibration drift (%D= -23)	
x	U8762	CCV1	SW8260B		trans-1,4-Dichloro-2-butene	J- / UJ to RRs/NDs	VOC			8/11/06	7:39	calibration drift (%D= -26)	
LCSD for HBN 329528 [EXTO/1439]	397521	LCSD	SW8270C	W	2,4-Dimethylphenol	J- / UJ to RRs/NDs	TRG	8/3/2006	19:00	8/4/2006	18:00	low LCS/LCSD ave recovery (52.5%)	329648
x	C0603	ICAL1	SW8270C		2,4-Dinitrophenol	J / UJ to RRs/NDs	SVOC			8/4/06	10:46	low instrument response (low RRF); elevate SDL for NDs 5x (GW)	
LCSD for HBN 329528 [EXTO/1439]	397521	LCSD	SW8270C	W	2-Chlorophenol	J- / UJ to RRs/NDs	TRG	8/3/2006	19:00	8/4/2006	18:00	low LCS/LCSD ave recovery (55%)	329648
EB-505	20608030211	EQBK	SW8270C	W	2-Methylnaphthalene	U to RRs < 5 x BlankEquivConc	TRG	8/3/2006	19:00	8/4/2006	19:30	equipment blank contamination (0.000319 J mg/L)	329648
EB504	20608030216	EQBK	SW8270C	W	2-Methylnaphthalene	U to RRs < 5 x BlankEquivConc	TRG	8/3/2006	19:00	8/4/2006	20:15	equipment blank contamination (0.000281 J mg/L)	329648
FB-504	20608030218	FLDBK	SW8270C	W	2-Methylnaphthalene	U to RRs < 5 x BlankEquivConc	TRG	8/3/2006	19:00	8/4/2006	20:29	field blank contamination (0.000285 J mg/L)	329648
x	C0603	ICAL1	SW8270C		4,6-Dinitro-o-cresol	J / UJ to RRs/NDs	SVOC			8/4/06	10:46	low instrument response (low RRF); elevate SDL for NDs 3x (GW)	
LCSD for HBN 329528 [EXTO/1439]	397521	LCSD	SW8270C	W	4-Nitrophenol	J- / UJ to RRs/NDs	TRG	8/3/2006	19:00	8/4/2006	18:00	low LCS/LCSD ave recovery (16.5%)	329648
EB-505	20608030211	EQBK	SW8270C	W	Acetophenone	U to RRs < 5 x BlankEquivConc (none)	TRG	8/3/2006	19:00	8/4/2006	19:30	equipment blank contamination (0.00122 J mg/L)	329648
EB504	20608030216	EQBK	SW8270C	W	Acetophenone	U to RRs < 5 x BlankEquivConc (none)	TRG	8/3/2006	19:00	8/4/2006	20:15	equipment blank contamination (0.00116 J mg/L)	329648
FB-504	20608030218	FLDBK	SW8270C	W	Acetophenone	U to RRs < 5 x BlankEquivConc (none)	TRG	8/3/2006	19:00	8/4/2006	20:29	field blank contamination (0.000972 J mg/L)	329648
FB-505	20608030210	FLDBK	SW8270C	W	Acetophenone	U to RRs < 5 x BlankEquivConc (none)	TRG	8/3/2006	19:00	8/4/2006	19:15	field blank contamination (0.00114 J mg/L)	329648
EB-505	20608030211	EQBK	SW8270C	W	Benzaldehyde	U to RRs < 5 x BlankEquivConc (none)	TRG	8/3/2006	19:00	8/4/2006	19:30	equipment blank contamination (0.00103 J mg/L)	329648
EB504	20608030216	EQBK	SW8270C	W	Benzaldehyde	U to RRs < 5 x BlankEquivConc (none)	TRG	8/3/2006	19:00	8/4/2006	20:15	equipment blank contamination (0.000481 J mg/L)	329648
FB-504	20608030218	FLDBK	SW8270C	W	Benzaldehyde	U to RRs < 5 x BlankEquivConc (none)	TRG	8/3/2006	19:00	8/4/2006	20:29	field blank contamination (0.000588 J mg/L)	329648
FB-505	20608030210	FLDBK	SW8270C	W	Benzaldehyde	U to RRs < 5 x BlankEquivConc (none)	TRG	8/3/2006	19:00	8/4/2006	19:15	field blank contamination (0.00102 J mg/L)	329648
LCSD for HBN 329528 [EXTO/1439]	397521	LCSD	SW8270C	W	Benzaldehyde	J+ to RRs (none)	TRG	8/3/2006	19:00	8/4/2006	18:00	high LCS/LCSD ave recovery (201.5%)	329648

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LCSD for HBN 329528 [EXTO/1439]	397521	LCSD	SW8270C		W	Benzidine	J+ to RRs (none)	TRG	8/3/2006	19:00	8/4/2006	18:00	high LCS/LCSD ave recovery (548%)	329648
EB504	20608030216	EQBK	SW8270C		W	Benzo(g,h,i)perylene	U to RRs < 5 x BlankEquivConc (none)	TRG	8/3/2006	19:00	8/4/2006	20:15	equipment blank contamination (0.000491 J mg/L)	329648
LCSD for HBN 329528 [EXTO/1439]	397521	LCSD	SW8270C		W	Benzoic acid	J- / R to RRs/NDs	TRG	8/3/2006	19:00	8/4/2006	18:00	extremely low LCS/LCSD ave recovery (7.5%)	329648
LCSD for HBN 329528 [EXTO/1439]	397521	LCSD	SW8270C		W	Benzoic acid	J to RRs	TRG	8/3/2006	19:00	8/4/2006	18:00	poor LCS/LCSD precision (46 RPD)	329648
EB-505	20608030211	EQBK	SW8270C		W	Benzyl alcohol	U to RRs < 5 x BlankEquivConc (none)	TRG	8/3/2006	19:00	8/4/2006	19:30	equipment blank contamination (0.000367 J mg/L)	329648
FB-505	20608030210	FLDBK	SW8270C		W	Benzyl alcohol	U to RRs < 5 x BlankEquivConc (none)	TRG	8/3/2006	19:00	8/4/2006	19:15	field blank contamination (0.000354 J mg/L)	329648
LCSD for HBN 329528 [EXTO/1439]	397521	LCSD	SW8270C		W	Benzyl alcohol	J- / UJ to RRs/NDs	TRG	8/3/2006	19:00	8/4/2006	18:00	low LCS/LCSD ave recovery (53%)	329648
EB-505	20608030211	EQBK	SW8270C		W	Butyl benzyl phthalate	U to RRs < 10 x BlankEquivConc (none)	TRG	8/3/2006	19:00	8/4/2006	19:30	equipment blank contamination (0.016 mg/L)	329648
EB504	20608030216	EQBK	SW8270C		W	Butyl benzyl phthalate	U to RRs < 10 x BlankEquivConc (none)	TRG	8/3/2006	19:00	8/4/2006	20:15	equipment blank contamination (0.016 mg/L)	329648
FB-504	20608030218	FLDBK	SW8270C		W	Butyl benzyl phthalate	U to RRs < 10 x BlankEquivConc (none)	TRG	8/3/2006	19:00	8/4/2006	20:29	field blank contamination (0.00302 J mg/L)	329648
FB-505	20608030210	FLDBK	SW8270C		W	Butyl benzyl phthalate	U to RRs < 10 x BlankEquivConc (none)	TRG	8/3/2006	19:00	8/4/2006	19:15	field blank contamination (0.016 mg/L)	329648
EB-505	20608030211	EQBK	SW8270C		W	Caprolactam	U to RRs < 5 x BlankEquivConc (none)	TRG	8/3/2006	19:00	8/4/2006	19:30	equipment blank contamination (0.000393 J mg/L)	329648
FB-504	20608030218	FLDBK	SW8270C		W	Caprolactam	U to RRs < 5 x BlankEquivConc (none)	TRG	8/3/2006	19:00	8/4/2006	20:29	field blank contamination (0.000503 J mg/L)	329648
LCSD for HBN 329528 [EXTO/1439]	397521	LCSD	SW8270C		W	Caprolactam	J- / UJ to RRs/NDs	TRG	8/3/2006	19:00	8/4/2006	18:00	low LCS/LCSD ave recovery (20%)	329648
EB-505	20608030211	EQBK	SW8270C		W	Diethyl phthalate	U to RRs < 10 x BlankEquivConc (none)	TRG	8/3/2006	19:00	8/4/2006	19:30	equipment blank contamination (0.000622 J mg/L)	329648
EB504	20608030216	EQBK	SW8270C		W	Diethyl phthalate	U to RRs < 10 x BlankEquivConc (none)	TRG	8/3/2006	19:00	8/4/2006	20:15	equipment blank contamination (0.000628 J mg/L)	329648
FB-504	20608030218	FLDBK	SW8270C		W	Diethyl phthalate	U to RRs < 10 x BlankEquivConc (none)	TRG	8/3/2006	19:00	8/4/2006	20:29	field blank contamination (0.000832 J mg/L)	329648
FB-505	20608030210	FLDBK	SW8270C		W	Diethyl phthalate	U to RRs < 10 x BlankEquivConc (none)	TRG	8/3/2006	19:00	8/4/2006	19:15	field blank contamination (0.000643 J mg/L)	329648
EB-505	20608030211	EQBK	SW8270C		W	Di-n-butyl phthalate	U to RRs < 10 x BlankEquivConc	TRG	8/3/2006	19:00	8/4/2006	19:30	equipment blank contamination (0.000817 J mg/L)	329648
EB504	20608030216	EQBK	SW8270C		W	Di-n-butyl phthalate	U to RRs < 10 x BlankEquivConc	TRG	8/3/2006	19:00	8/4/2006	20:15	equipment blank contamination (0.000851 J mg/L)	329648

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FB-505	20608030210	FLDBK	SW8270C		W	Di-n-butyl phthalate	U to RRs < 10 x BlankEquivConc	TRG	8/3/2006	19:00	8/4/2006	19:15	field blank contamination (0.000838 J mg/L)	329648
LCSD for HBN 329528 [EXTO/1439]	397521	LCSD	SW8270C		W	Hexachlorocyclopentadiene	J- / UJ to RRs/NDs	TRG	8/3/2006	19:00	8/4/2006	18:00	low LCS/LCSD ave recovery (42.5%)	329648
LCSD for HBN 329528 [EXTO/1439]	397521	LCSD	SW8270C		W	Hexachloroethane	J- / UJ to RRs/NDs	TRG	8/3/2006	19:00	8/4/2006	18:00	low LCS/LCSD ave recovery (59.5%)	329648
LCSD for HBN 329528 [EXTO/1439]	397521	LCSD	SW8270C		W	m,p-Cresol	J- / UJ to RRs/NDs	TRG	8/3/2006	19:00	8/4/2006	18:00	low LCS/LCSD ave recovery (34.5%)	329648
LCSD for HBN 329528 [EXTO/1439]	397521	LCSD	SW8270C		W	n-Nitrosodimethylamine	J- / UJ to RRs/NDs	TRG	8/3/2006	19:00	8/4/2006	18:00	low LCS/LCSD ave recovery (50.5%)	329648
LCSD for HBN 329528 [EXTO/1439]	397521	LCSD	SW8270C		W	o-Cresol	J- / UJ to RRs/NDs	TRG	8/3/2006	19:00	8/4/2006	18:00	low LCS/LCSD ave recovery (42%)	329648
x	C0603	ICAL1	SW8270C			Pentachlorophenol	J / UJ to RRs/NDs	SVOC			8/4/06	10:46	poor calibration fit (%RSD=26)	
LCSD for HBN 329528 [EXTO/1439]	397521	LCSD	SW8270C		W	Phenol	J- / UJ to RRs/NDs	TRG	8/3/2006	19:00	8/4/2006	18:00	low LCS/LCSD ave recovery (20%)	329648
LCSD for HBN 329528 [EXTO/1439]	397521	LCSD	SW8270C		W	Pyridine	J- / UJ to RRs/NDs	TRG	8/3/2006	19:00	8/4/2006	18:00	low LCS/LCSD ave recovery (21%)	329648
NC3PZ02-002	20608030204	SMP	SW8270C		W	2-Fluorophenol	J- / UJ to RRs/NDs for Acid analytes	SUR	8/3/2006	19:00	8/4/2006	18:15	low Acid SU recovery (43%)	329648
NC3PZ02-002	20608030204	SMP	SW8270C		W	Phenol-d5	J- / UJ to RRs/NDs for Acid analytes	SUR	8/3/2006	19:00	8/4/2006	18:15	low Acid SU recovery (36%)	329648
ND1PZ03-003	20608030205	SMP	SW8270C		W	2-Fluorophenol	J- / UJ to RRs/NDs for Acid analytes	SUR	8/3/2006	19:00	8/4/2006	18:30	low Acid SU recovery (41%)	329648
ND1PZ03-003	20608030205	SMP	SW8270C		W	Phenol-d5	J- / UJ to RRs/NDs for Acid analytes	SUR	8/3/2006	19:00	8/4/2006	18:30	low Acid SU recovery (35%)	329648
SJ1MW15-015	20608030208	SMP	SW8270C		W	2-Fluorophenol	J- / UJ to RRs/NDs for Acid analytes	SUR	8/3/2006	19:00	8/4/2006	18:45	low Acid SU recovery (24%)	329648
SJ1MW15-015	20608030208	SMP	SW8270C		W	Phenol-d5	J- / UJ to RRs/NDs for Acid analytes	SUR	8/3/2006	19:00	8/4/2006	18:45	low Acid SU recovery (20%)	329648
SE1MW08-008	20608030209	SMP	SW8270C		W	2-Fluorophenol	J- / UJ to RRs/NDs for Acid analytes	SUR	8/3/2006	19:00	8/4/2006	19:00	low Acid SU recovery (27%)	329648
SE1MW08-008	20608030209	SMP	SW8270C		W	Phenol-d5	J- / UJ to RRs/NDs for Acid analytes	SUR	8/3/2006	19:00	8/4/2006	19:00	low Acid SU recovery (22%)	329648
SE1MW08-008	20608030209	SMP	SW8270C		W	Terphenyl-d14	none (only one of multiple surrogates is deficient)	SUR	8/3/2006	19:00	8/4/2006	19:00	high Base/Neutral SU recovery (146%)	329648
ND4MW03-003	20608030214	SMP	SW8270C		W	2-Fluorophenol	J- / UJ to RRs/NDs for Acid analytes	SUR	8/3/2006	19:00	8/4/2006	19:44	low Acid SU recovery (27%)	329648
ND4MW03-003	20608030214	SMP	SW8270C		W	Phenol-d5	J- / UJ to RRs/NDs for Acid analytes	SUR	8/3/2006	19:00	8/4/2006	19:44	low Acid SU recovery (18%)	329648

## ATTACHMENT 1

NE3MW05-005	20608030215	SMP	SW8270C		W	2-Fluorophenol	J- / UJ to RRs/NDs for Acid analytes	SUR	8/3/2006	19:00	8/4/2006	19:59	low Acid SU recovery (24%)	329648
NE3MW05-005	20608030215	SMP	SW8270C		W	Phenol-d5	J- / UJ to RRs/NDs for Acid analytes	SUR	8/3/2006	19:00	8/4/2006	19:59	low Acid SU recovery (15%)	329648



NELAP CERTIFICATE NUMBER 01955

## ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

Report Date      10/03/2006

GCAL Report    206080302

RESUBMITTED

**Deliver To** Pastor, Behling, & Wheeler  
2201 Double Creek Dr.  
Suite 4004  
Round Rock, TX 78664  
512-671-3434

**Attn** Jen Pavese

Customer Pastor, Behling, & Wheeler

PROJECT NAME Gulfco Marine Maintenance Site

## CASE NARRATIVE

**Client:** Pastor, Behling, & Wheeler      **Report:** 206080302

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

Selected pages of the report are resubmitted. In the SW-846 8081A analysis, the retention time window was inadvertently set too wide. A review of the data showed that a reported target analyte was not confirmed (did not elute within the correct retention time window). The Form I and raw data are resubmitted for sample 20608030215 (NE3MW05-005). In the SW-846 8270C analysis of sample 20608030215 (NE3MW05-005) the surrogate was misidentified. The corrected raw data and Form II is resubmitted.

## VOLATILES MASS SPECTROMETRY

In the SW-846 8260B analysis for analytical batch 329530, an MS/MSD was not reported. However, an LCS/LCSD is included for review.

In the SW-846 8260B analysis for analytical batch 330206, the MS/MSD exhibited sporadic recovery failures. This is attributed to matrix interference. Bromomethane exhibited an increased response in the CCV yielding a percent drift of 93. Bromomethane was not detected in any samples. The LCS/LCSD exhibited marginal sporadic recovery failures for the extended list of spike compounds. 2-CVE was not recovered in the MS and MSD. This can be attributed to the acidic nature of the associated samples.

In the SW-846 8260B analysis, sample 20608030215 (NE3MW05-005) had to be diluted due to compounds that were detected above the linear range of the calibration.

In the SW-846 8260B analysis for analytical batch 330298, the MS/MSD exhibited sporadic recovery and RPD failures. This is attributed to matrix interference. The LCS/LCSD exhibited marginal sporadic recovery and RPD failures for the extended list of spike compounds. Bromomethane exhibited an increased response in the CCV yielding a percent drift of 156. Bromomethane was not detected in any samples.

In the SW-846 8260B analysis, Bromomethane is above the upper control limit in the ICV analyzed on instrument MSV3 on 07/21/06. Vinyl Acetate was outside the control limit in the ICV analyzed on instrument MSV5 on 08/01/06.

## SEMI-VOLATILES MASS SPECTROMETRY

In the SW-846 8270C analysis, samples 20608030209 (SE1MW08-008), 20608030210 (FB-505), 20608030211 (EB-505), and 20608030214 (ND4MW03-003) had one surrogate recovery outside control limits in the base-neutral fraction. Sample

000002  
RESUBMITTED

20608030216 (EB504) had one surrogate recovery outside the control limit in the acid fraction. All other surrogate recoveries were acceptable for this sample.

In the SW-846 8270C analysis for prep batch 329528, Benzoic Acid, Benzidine and Benzaldehyde were recovered outside of the established control limits for the LCS and LCSD.

In the SW-846 8270C analysis, n-Nitrosodimethylamine is above the upper control limit in the ICV analyzed on instrument MSSV4 on 08/04/06.

## METALS

In the SW-846 6010B analysis, a chemical or physical interference necessitated a dilution for sample 20608030204 (NC3PZ02-002). This is reflected in the elevated reporting limits.

In the SW-846 6010B analysis for prep batch 329498, the MS and/or MSD recoveries were outside the control limits for Arsenic and Lithium. The LCS recovery was within control limits. This indicates the analysis is in control and the sample is affected by matrix interference. A post-digestion spike was performed on the QC sample for this batch with a recovery of 95% for Arsenic and 125% for Lithium. The MS/MSD recoveries and RPD are not applicable for Manganese, Strontium and Hardness because the sample concentration is greater than four times the spike concentration. Chromium is flagged as estimated due to the fact that the percent difference between the original sample result and the serial dilution result is greater than 10. A chemical or physical interference is suspected.

In the SW-846 7470A analysis for prep batch 329499, the MS and/or MSD recovery was outside the control limits for Mercury. The LCS recovery was within the control limits. This indicates the analysis is in control and the sample is affected by matrix interference.

## CONVENTIONALS

In the 7196A analysis for analytical batch 329394, the MS recovery was outside the control limits for Chromium VI. The LCS recovery was within control limits. This indicates the analysis is in control and the sample is affected by a matrix interference.

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RESUBMITTED

2C  
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: GCAL Contract: \_\_\_\_\_  
 Lab Code: LA024 Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: 206080302  
 Method: SW-846 8270 Level: ( low/med ) LOW

<b>EPA SAMPLE NO.</b>	<b>SMC1</b>	<b>#</b>	<b>SMC2</b>	<b>#</b>	<b>SMC3</b>	<b>#</b>	<b>SMC4</b>	<b>#</b>	<b>SMC5</b>	<b>#</b>	<b>SMC6</b>	<b>#</b>	<b>TOT OUT</b>
1. NC3PZ02-002	72		60		66		36		43		85		0
2. ND1PZ03-003	78		71		87		35		41		89		0
3. SJ1MW15-015	77		76		94		20		24		80		0
4. SE1MW08-008	80		78		146	*	22		27		85		1
5. FB-505	79		80		139	*	16		25		81		1
6. EB-505	80		79		151	*	16		24		82		1
7. ND4MW03-003	79		79		130	*	18		27		87		1
8. NE3MW05-005	80		81		98		15		24		92		0
9. EB504	80		78		113		14		23	*	85		1
10. FB-504	81		80		90		17		26		74		0
11. MB397519	84		77		101		17		27		82		0
12. LCS397520	85		85		71		18		27		99		0
13. LCSD397521	83		83		69		17		27		91		0

CONTROL LIMITS

SMC 1	Nitrobenzene-d5	43	110
SMC 2	2-Fluorobiphenyl	16	128
SMC 3	Terphenyl-d14	47	121
SMC 4	Phenol-d5	10	76
SMC 5	2-Fluorophenol	24	96
SMC 6	2,4,6-Tribromophenol	19	133

# Column to be used to flag recovery limits

\* Value outside of contract required limits

D Surrogate diluted out

GCAL, Inc.

BNA QUANT AND RATIO REPORT

Data file : /var/chem/MSSV4.i/2060804.s.b/c0638.d  
Lab Smp Id: 20608030215 Client Smp ID: 20608030215  
Inj Date : 04-AUG-2006 19:59  
Operator : rrr Inst ID: MSSV4.i  
Smp Info : 20608030215\*4482\*  
Misc Info : 20608030215\*MSSV~3867~\*080302\*1000-1\*329528\*  
Comment :  
Method : /var/chem/MSSV4.i/2060804.s.b/8270CE\_04.m  
Meth Date : 30-Aug-2006 08:26 rlw Quant Type: ISTD  
Cal Date : 04-AUG-2006 08:44 Cal File: c0595.d  
Als bottle: 45  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: SA8270.sub  
Target Version: 3.50  
Processing Host: org.gcal.com

Concentration Formula: Amt \* DF \* Uf \* Vt / (Vo \* Vi) \* CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	( ppm)
\$ 3 2-Fluorophenol	112	0.804	0.804 (0.469)	131263	23.7094	23.7 (R)	
\$ 4 Phenol-d5	99	1.472	1.478 (0.860)	263454	15.2284	15.2	
* 10 1,4-Dichlorobenzene-d4	152	1.713	1.718 (1.000)	358860	40.0000		
17 3- & 4-Methylphenol	108	2.002	2.013 (1.169)	18214	0.96877	0.969 (a)	
\$ 19 Nitrobenzene-d5	82	2.082	2.088 (0.824)	602979	40.1472	40.1 (M)	
* 28 Naphthalene-d8	136	2.526	2.526 (1.000)	1284204	40.0000		
29 Naphthalene	128	2.542	2.542 (1.006)	7231097	202.068	202 (A)	
33 2-Methylnaphthalene	142	2.959	2.965 (1.171)	374616	15.8420	15.8	
145 1-Methylnaphthalene	142	3.018	3.024 (1.195)	298816	15.2966	15.3	
\$ 37 2-Fluorobiphenyl	172	3.189	3.195 (0.890)	933607	40.5976	40.6	
* 44 Acenaphthene-d10	164	3.585	3.590 (1.000)	633796	40.0000		
45 Acenaphthene +	153	3.607	3.612 (1.006)	168074	8.62477	8.62 (a)	
47 Dibenzofuran	168	3.714	3.719 (1.036)	133341	4.92883	4.93 (a)	

000673

RESUBMITTED

Compounds	QUANT SIG	CONCENTRATIONS						
		MASS	RT	EXP RT	REL RT	RESPONSE	( ppm)	( ug/L)
51 Fluorene		166	3.917	3.922	(1.092)	124527	6.09665	6.10(a)
\$ 57 2,4,6-Tribromophenol		332	4.067	4.072	(1.134)	239065	92.0392	92.0
* 61 Phenanthrene-d10		188	4.484	4.489	(1.000)	898202	40.0000	
62 Phenanthrene		178	4.500	4.505	(1.004)	176696	6.38069	6.38(a)
63 Anthracene		178	4.532	4.532	(1.011)	36658	1.38304	1.38(a)
64 Carbazole		167	4.633	4.639	(1.033)	184776	7.68306	7.68(a)
69 Pyrene		202	5.372	5.372	(0.861)	15182	0.51736	0.517(a)
\$ 70 Terphenyl-d14		244	5.495	5.495	(0.881)	948446	49.1287	49.1
* 74 Chrysene-d12		240	6.238	6.243	(1.000)	788244	40.0000	
* 81 Perylene-d12		264	7.340	7.335	(1.000)	959721	40.0000	
M 66 Total Methylphenol		108				18214	1.33397	1.33(a)
157 Biphenyl		154	3.243	3.248	(1.284)	42242	1.37520	1.38(a)
174 1,4-Dioxane		88	0.408	0.408	(0.238)	1805	3.40416	3.40(a)

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).  
A - Target compound detected but, quantitated amount exceeded maximum amount.  
R - Spike/Surrogate failed recovery limits.  
M - Compound response manually integrated.

000674  
RESUBMITTED

DATA VALIDATION CHECKLIST (Level III)				
ITEM	Yes	No	NA	Comment Number
Client Name: Pastor, Behling, & Wheeler				Project Number: 1352
Property Location: Gulfco Superfund Site				Project Manager: Eric Pastor
Laboratory: GCAL – Baton Rouge, LA GEL – Charleston, SC				Laboratory Job No.: GCAL - 206080306 GEL - 168507
Reviewer: (QAA, L.L.C.) DAF				Date Checked: 9/12/06
<b>Chain of Custody (COC) and Sample Receipt at Lab</b>				
1. Signed COCs included and seals used?	X			
2. Date and time of sample collection included?	X			
3. All samples listed on the COC analyzed for in accordance with the RI/FS Work Plan?	X			
4. Field QC sample frequency met project requirements?			X	
5. Sample receipt temperature 2-6°C?	X			
6. Samples preserved appropriately?	X			
7. Samples received within 2 days of collection?	X			from GCAL
8. No problems noted?	X			
<b>Laboratory Report and Data Package</b>				
9. Signed Case Narrative included?	X			
10. No analytical discrepancies noted in case narrative?		X		10.
11. Elevated reporting limits justified?			X	
12. MDLs reasonable per DCS?			X	12.
13. Calibration data acceptable?	X			ecd8a 081406
14. ICV and CCV recoveries within project control limits?		X		14.
15. ICB and CCB results <RL (MQL)?			X	
16. Internal standard areas within project control limits?			X	
<b>Laboratory EDD</b>				
17. Field sample IDs included?		X		17.
18. Laboratory sample IDs included?	X			
19. Date of analysis included?	X			
20. Date of sample preparation included?	X			
21. Samples prepared within holding time?	X			
22. Samples analyzed within holding time?	X			
23. Detection limit and quantitation limit included?	X			
24. Project target limits achieved?	X			
25. No elevated reporting limits?	X			
26. Method references included?	X			
27. Sample matrix included?	X			
28. Sample result units reported correctly?	X			in ug/L
29. Soil/ sediment results corrected for dry-weight?			X	
30. Method blank results <RL (MDL)?	X			
31. Equipment and Trip blank results <RL (MDL)?			X	
32. All COIs included in LCS?	X			
33. LCS recovery within project control limits?	X			
34. MS/MSD recoveries within project control limits?	X			34.
35. LCS/LCSD RPDs within project control limits?			X	no LCSD
36. MS/MSD RPDs within project control limits?	X			
37. Laboratory duplicate RPDs/Diffs within project control limits?			X	
38. Field duplicate RPDs/Diffs within project control limits?			X	
39. Surrogate recoveries within project control limits?		X		39.
40. Completeness percentage within project limits?	X			

<p>Definitions:</p> <p><b>CCB</b> – Continuing Calibration Blank; <b>CCV</b> – Continuing Calibration Verification; <b>COI</b> – Compounds of Interest; <b>DCS</b> – Detectability Check Sample; <b>ICB</b> – Initial Calibration Blank; <b>ICV</b> – Initial Calibration Verification; <b>LCS</b> – Laboratory Control Sample; <b>LCSD</b> – Laboratory Control Sample Duplicate; <b>MDL</b> – Method Detection Limit; <b>MS/MSD</b> – Matrix Spike/Matrix Spike Duplicate; <b>RL</b> – Reporting Limit; <b>RPD</b> – Relative Percent Difference</p>				
<b>COMMENTS</b>				
10. Issues noted. All are based on laboratory limits, which do not affect flagging for this site, except:				
One TA failed CCV acceptance criteria with a negative bias on one column for this SDG.				
Elemental mercury and alumina cleanup used for sample extracts				
12. GEL laboratory packages do not include quantitation reports, chromatograms, or MDL/DCS documentation. Since all samples are ND and all QC information is available on summary forms, no further action was taken.				
14. %D for CCV outside criteria as follows. No flagging as this TA is ND in the sample and thus not affected by negative bias (negative %D) on just one column.				
CCV1	Tetrachlorobiphenyl (77)	-16%		
17. Analyses were subcontracted and thus the field Sample ID is the primary Lab ID (from GCAL).				
34. MS/MSD passes all requirements but note that it is not reported in EDD since parent sample from another SDG; however, it is a GW from this site (SL8MW017) and thus was used to assess data quality.				
39. Surrogate low (46%) for NE3MW05. All TAs are ND for the sample and were qualified UJ.				

**SET SUMMARY**  
**Laboratory Job No.: 206080306**

2	Number of Field Samples including Field Duplicates (0)
0	Number of Field MS/MSD Pairs
0	Number of Equipment Rinsate Blanks
0	Number of Field Blanks
NA	Number of VOC Trip Blanks
1	Number of Parameters (PCB Congeners)
31	Number of Target Analytes per Sample
62	Total Measurements for Field Samples
31	Number of measurements with no validation qualifier (i.e., "none" in EDD)
31	Number of measurements with UJ flag (for every target analyte due to low surrogate recovery)
0	Number of measurements with J- flag
0	Number of measurements with J flag
0	Number of measurements with J+ flag
0	Number of measurements with U flag
0	Number of measurement with NS flag
0	Number of measurements with R flag
100%	Completeness-to-date on a sample level (percentage of sediment samples with usable data, project goal 90%)
100%	Completeness-to-date on an analyte level (percentage of sediment samples with usable data for a specific analyte, project goal 80%) – PCB Congeners

Usability: All data suitable as qualified for the intended use

<b>DATA VALIDATION CHECKLIST</b> (Level III)				
ITEM	Yes	No	NA	Comment Number
Client Name: Pastor, Behling, & Wheeler				Project Number: 1352
Property Location: Gulfco Superfund Site				Project Manager: Eric Pastor
Laboratory: GCAL – Baton Rouge, LA				Laboratory Job No.: 206080424
Reviewer: Taryn Scholz/ Don Flory (QAA, L.L.C.)				Date Checked: 9/28/06
<b>Chain of Custody (COC) and Sample Receipt at Lab</b>				
1. Signed COCs included and seals used?		x		1.
2. Date and time of sample collection included?	x			2.
3. All samples listed on the COC analyzed for in accordance with the RI/FS Work Plan?	x			
4. Field QC sample frequency met project requirements?		x		4.
5. Sample receipt temperature 2-6°C?	x			
6. Samples preserved appropriately?	x			
7. Samples received within 2 days of collection?	x			
8. No problems noted?	x			
<b>Laboratory Report and Data Package</b>				
9. Signed Case Narrative included?	x			
10. No analytical discrepancies noted in case narrative?		x		10.
11. Elevated reporting limits justified?	x			11.
12. MDLs reasonable per DCS?	x			
13. Calibration data acceptable?		x		see attached
14. ICV and CCV recoveries within project control limits?		x		see attached
15. ICB and CCB results <RL (MQL)?	x			
16. Internal standard areas within project control limits?	x			
<b>Laboratory EDD</b>				
17. Field sample IDs included?	x			
18. Laboratory sample IDs included?	x			
19. Date of analysis included?	x			
20. Date of sample preparation included?	x			
21. Samples prepared within holding time?	x			
22. Samples analyzed within holding time?	x			
23. Detection limit and quantitation limit included?	x			
24. Project target limits achieved?		x		24.
25. No elevated reporting limits?		x		25.
26. Method references included?	x			
27. Sample matrix included?	x			
28. Sample result units reported correctly?	x			28.
29. Soil/ sediment results corrected for dry-weight?			x	
30. Method blank results <RL (MDL)?		x		see attached
31. Equipment and Trip blank results <RL (MDL)?		x		31. see attached
32. All COIs included in LCS?	x			32.
33. LCS recovery within project control limits?		x		see attached
34. MS/MSD recoveries within project control limits?		x		see attached
35. LCS/LCSD RPDs within project control limits?		x		see attached
36. MS/MSD RPDs within project control limits?		x		see attached
37. Laboratory duplicate RPDs/Diffs within project control limits?			x	
38. Field duplicate RPDs/Diffs within project control limits?		x		see attached
39. Surrogate recoveries within project control limits?		x		see attached
40. Completeness percentage within project limits?		x		40.

<p>Definitions:</p> <p><b>CCB</b> – Continuing Calibration Blank; <b>CCV</b> – Continuing Calibration Verification; <b>COI</b> – Compounds of Interest; <b>DCS</b> – Detectability Check Sample; <b>ICB</b> – Initial Calibration Blank; <b>ICV</b> – Initial Calibration Verification; <b>LCS</b> – Laboratory Control Sample; <b>LCSD</b> – Laboratory Control Sample Duplicate; <b>MDL</b> – Method Detection Limit; <b>MS/MSD</b> – Matrix Spike/Matrix Spike Duplicate; <b>RL</b> – Reporting Limit; <b>RPD</b> – Relative Percent Difference</p>				
<b>COMMENTS</b>				
Level IV Check - GC/MS RRF for instrument calibration also included in Level III checks after deficiencies noted in first samples – see attached for deficiencies noted				
1. Lab did not sign page 6 of 10.				
2. Three TBs have no Collection Date on Chain or in EDD.				
4. One MS/MSD and one field duplicate collected with these samples; however, frequency for all GW sample sets is only 1-to-27 for MS/MSD for SVOC, Pest, PCB. This is not considered to significantly affect data quality.				
10. Issues noted for all parameters. All are based on laboratory limits, which do not affect flagging for this site, except:				
VOC – no MS/MSD for batch 329645 due to insufficient sample (this batch only contains field blanks) SVOC – bis(2-Ethylhexyl)phthalate contamination in lab blank				
11. Four VOC samples diluted due to analytes above the calibration range; one SVOC sample diluted due to matrix interference with IS, surrogates diluted out; Two metals samples diluted due to concentrations above linear range for Na and Sr; Metals samples diluted due to chemical or physical interference; Chloride/ Sulfate samples diluted due to amount above calibration curve; One Cr(VI) sample diluted due to chemical or physical interference				
24. Chloride actual MDL of 0.53 mg/L slightly above target of 0.333 mg/L but no PSV for this analyte; Sulfate actual MDL of 1.9 mg/L slightly above target of 1.67 mg/L but no PSV for this analyte; Copper actual MDL (0.003 mg/L) slightly above Target (0.002 mg/L) but below PSV (0.0036 mg/L)				
25. All metals samples diluted 2-5x. Four VOC samples diluted 10-2000x. One SVOC sample diluted 10x. One Chloride and one Sulfate sample diluted. One Cr(VI) sample diluted 5x.				
28. For organics, the SDLs and SQLs are in mg/L as requested for samples logged in after 7/31/06; however, the user should note that the MDLs and MQLs are in ug/L and this is not accounted for in the Prep Factor or Dilution Factor.				
31. The GW equipment and field blanks have low levels of contamination for numerous analytes, which (for the organic contaminants) is attributed to the location of the site. Note that, in some cases, these contaminants were not detected in the samples or were also present in the laboratory blanks.				
32. All analytes routinely spiked by lab are included as per QAPP. This is every TA except n-Butyl alcohol, Toxaphene, and the 5 middle Aroclors.				
40. Low analyte-level completeness for two SVOC poor performers (Benzoic acid and Benzidine)				

**SET SUMMARY**  
**Laboratory Job No.: 206080424**

10	Number of Field Samples including Field Duplicates (1)
1	Number of Field MS/MSD Pairs
2	Number of Equipment Rinsate Blanks
2	Number of Field Blanks
3	Number of VOC Trip Blanks
10	Number of Parameters (VOC, SVOC, Pesticides, Aroclors, Metals-Total, Cr(VI)-Total, Sulfate, Chloride, Metals-Ca/Mg/K/Na, TDS)
207	Number of Target Analytes per Sample
1784	Total Measurements for Field Samples (Cr(VI) not requested for three samples; VOC not requested for two samples; SVOC not requested for one sample; Sulfate, Chloride, Metals-Ca/Mg/K/Na, TDS only requested for one sample)
1283	Number of measurements with no validation qualifier (i.e., "none" in EDD)
322	Number of measurements with UJ flag (for various analytes due to low laboratory and/or matrix spike recovery; poor calibration fit and/or negative drift)
8	Number of measurements with UJ flag and an elevated SDL (for n-Butyl alcohol due to poor instrument response, i.e., low RRF)
4	Number of measurements with J- flag (for 1,2,3-Trichloropropane, Aniline, and m,p-Cresol due to low spike recovery and/or negative calibration drift)
84	Number of measurements with J flag (due solely to result being between the SDL and SQL)
2	Number of measurements with J flag (due to result being between the SDL and SQL plus low surrogate spike recovery for one o-Cresol result and calibration drift for one Acetone result)
13	Number of measurements with J flag (for Chromium due to poor field duplicate precision and gamma-BHC (Lindane) due to poor matrix duplicate precision)
2	Number of measurements with J+ flag (for beta-BHC due to high matrix spike recovery)
57	Number of measurements with U flag (due to blank contamination; analytes affected include 2-Methylnaphthalene, 4,4'-DDT, 4-Chloroaniline, Acetone, Acetophenone, Aldrin, Aniline, Benzaldehyde, Benzoic acid, Benzyl alcohol, Bis(2-Ethylhexyl)phthalate, Di-n-butyl phthalate, gamma-BHC (Lindane), Heptachlor, Mercury, Methylene chloride, Nickel)
0	Number of measurements with NS flag
9	Number of measurements with R flag (for the nine Benzidine non-detects due to 0% matrix spike recovery)
100%	Completeness-to-date on a sample level (percentage of groundwater samples with usable data, project goal 90%)
67%	Completeness-to-date on an analyte level (percentage of groundwater samples with usable data for a specific analyte, project goal 80%) – Benzidine
59%	Completeness-to-date on an analyte level (percentage of groundwater samples with usable data for a specific analyte, project goal 80%) – Benzoic Acid
100%	Completeness-to-date on an analyte level (percentage of groundwater samples with usable data for a specific analyte, project goal 80%) – all other target analytes

Usability: All data suitable as qualified for the intended use except for the nine non-detects for Benzidine. Data for n-Butyl alcohol are usable with an elevated reporting limit for the non-detects (as given in the Electronic Data Deliverable). Measurements qualified with a U-flag should be considered not present at the concentration reported.

## QUALIFIED DATA TABLE

Field Sample Identification	Total_or_dissolved	Analyte	Data Qualifier	Reason for Qualification
MW-500	total	Aluminum	J	result is between SDL and SQL
MW-500	total	Antimony	J	result is between SDL and SQL
MW-500	total	Chromium	J	large difference between field duplicate pair (> 2 x MQL)
MW-500	total	Nickel	J	result is between SDL and SQL
MW-500	total	Silver	J	result is between SDL and SQL
MW-500	total	Titanium	J	result is between SDL and SQL
MW-500	total	Vanadium	J	result is between SDL and SQL
MW-500		Chromium VI	UJ	low MS/MSD ave recovery (37%)
MW-500	total	Mercury	U	laboratory blank contamination (0.00006 B mg/L), equipment blank contamination (0.00007 B mg/L), field blank contamination (0.0001 B mg/L), low MS/MSD ave recovery (54.5%), result is between SDL and SQL
MW-500		4,4'-DDT	U	equipment blank contamination (0.000015 J mg/L), field blank contamination (0.000022 J mg/L), result is between SDL and SQL
MW-500		delta-BHC	J	result is between SDL and SQL
MW-500		Endosulfan I	UJ	low LCS/LCSD ave recovery (54.5%)
MW-500		gamma-BHC (Lindane)	J	poor MS/MSD precision (41 RPD)
MW-500		Heptachlor	U	equipment blank contamination (0.000025 mg/L), calibration drift (%D= -16), high MS/MSD ave recovery (159%), result is between SDL and SQL
MW-500		Aroclor-1016	UJ	calibration drift (%D= -17 to -22 %), low SU recovery (47%)
MW-500		Aroclor-1221	UJ	low SU recovery (47%)
MW-500		Aroclor-1232	UJ	low SU recovery (47%)
MW-500		Aroclor-1242	UJ	low SU recovery (47%)
MW-500		Aroclor-1248	UJ	low SU recovery (47%)
MW-500		Aroclor-1254	UJ	low SU recovery (47%)
MW-500		Aroclor-1260	UJ	calibration drift (%D= -17), low SU recovery (47%)
MW-500		1,1-Dichloroethene	J	result is between SDL and SQL
MW-500		1,2,3-Trichloropropane	J	result is between SDL and SQL
MW-500		4-Methyl-2-pentanone	UJ	calibration drift (%D= -23)
MW-500		n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (GW)
MW-500		2,4,5-Trichlorophenol	UJ	2 low Acid SU recoveries (43%, 31%)
MW-500		2,4,6-Trichlorophenol	UJ	2 low Acid SU recoveries (43%, 31%)
MW-500		2,4-Dichlorophenol	UJ	2 low Acid SU recoveries (43%, 31%)
MW-500		2,4-Dimethylphenol	UJ	2 low Acid SU recoveries (43%, 31%)
MW-500		2,4-Dinitrophenol	UJ	2 low Acid SU recoveries (43%, 31%)
MW-500		2-Chlorophenol	UJ	2 low Acid SU recoveries (43%, 31%)
MW-500		2-Methylnaphthalene	U	equipment blank contamination (0.000329 J mg/L), result is between SDL and SQL
MW-500		2-Nitrophenol	UJ	2 low Acid SU recoveries (43%, 31%)
MW-500		4,6-Dinitro-2-methylphenol	UJ	2 low Acid SU recoveries (43%, 31%)
MW-500		4-Chloro-3-methylphenol	UJ	2 low Acid SU recoveries (43%, 31%)
MW-500		4-Chloroaniline	U	equipment blank contamination (0.00144 J mg/L), field blank contamination (0.00126 J mg/L), result is between SDL and SQL
MW-500		4-Nitrophenol	UJ	low LCS/LCSD ave recovery (43.5%), low MS/MSD ave recovery (50%), 2 low Acid SU recoveries (43%, 31%)
MW-500		Aniline	U	equipment blank contamination (0.000711 J mg/L), calibration drift (%D= -26), low LCS/LCSD ave recovery (49%), low MS/MSD ave recovery (34%), result is between SDL and SQL
MW-500		Atrazine (Aatrex)	UJ	calibration drift (%D= -24)

## QUALIFIED DATA TABLE

Field Sample Identification	Total_or_dissolved	Analyte	Data Qualifier	Reason for Qualification
MW-500		Benzaldehyde	UJ	calibration drift (%D= -27)
MW-500		Benzidine	R	extremely low MS/MSD ave recovery (0%), poor calibration fit (%RSD=50), calibration drift (%D= -34)
MW-500		Benzoic acid	UJ	low LCS/LCSD ave recovery (39.5%)
MW-500		Bis(2-Ethylhexyl)phthalate	U	laboratory blank contamination (0.012 mg/L), equipment blank contamination (0.013 B mg/L), field blank contamination (0.012 B mg/L)
MW-500		Caprolactam	UJ	low LCS/LCSD ave recovery (31.5%), low MS/MSD ave recovery (39.5%)
MW-500		Di-n-octyl phthalate	UJ	poor calibration fit (%RSD=17)
MW-500		Fluorene	J	result is between SDL and SQL
MW-500		Hexachlorocyclopentadiene	UJ	low LCS/LCSD ave recovery (38%), low MS/MSD ave recovery (41.5%)
MW-500		Hexachloroethane	UJ	low LCS/LCSD ave recovery (59%), low MS/MSD ave recovery (50.5%)
MW-500		m,p-Cresol	UJ	2 low Acid SU recoveries (43%, 31%)
MW-500		n-Nitrosodimethylamine	UJ	poor calibration fit (%RSD=28), low LCS/LCSD ave recovery (49%), low MS/MSD ave recovery (49.5%)
MW-500		n-Nitrosodi-n-propylamine	UJ	calibration drift (%D= -21)
MW-500		o-Cresol	UJ	2 low Acid SU recoveries (43%, 31%)
MW-500		Pentachlorophenol	UJ	2 low Acid SU recoveries (43%, 31%)
MW-500		Phenanthrene	J	result is between SDL and SQL
MW-500		Phenol	UJ	low LCS/LCSD ave recovery (32.5%), low MS/MSD ave recovery (52%), 2 low Acid SU recoveries (43%, 31%)
MW-500		Pyridine	UJ	poor calibration fit (%RSD=24)
NB4PZ01-001	total	Antimony	J	result is between SDL and SQL
NB4PZ01-001	total	Boron	J	result is between SDL and SQL
NB4PZ01-001	total	Chromium	J	large difference between field duplicate pair (> 2 x MQL)
NB4PZ01-001	total	Molybdenum	J	result is between SDL and SQL
NB4PZ01-001	total	Nickel	J	result is between SDL and SQL
NB4PZ01-001	total	Silver	J	result is between SDL and SQL
NB4PZ01-001	total	Vanadium	J	result is between SDL and SQL
NB4PZ01-001	total	Mercury	U	laboratory blank contamination (0.00006 B mg/L), equipment blank contamination (0.00007 B mg/L), field blank contamination (0.0001 B mg/L), low MS/MSD ave recovery (54.5%), result is between SDL and SQL
NB4PZ01-001		4,4'-DDT	U	equipment blank contamination (0.000015 J mg/L), field blank contamination (0.000022 J mg/L), result is between SDL and SQL
NB4PZ01-001		Endosulfan I	UJ	low LCS/LCSD ave recovery (54.5%)
NB4PZ01-001		Endosulfan II	J	result is between SDL and SQL
NB4PZ01-001		Aroclor-1016	UJ	calibration drift (%D= -16), low SU recovery (54%)
NB4PZ01-001		Aroclor-1221	UJ	low SU recovery (54%)
NB4PZ01-001		Aroclor-1232	UJ	low SU recovery (54%)
NB4PZ01-001		Aroclor-1242	UJ	low SU recovery (54%)
NB4PZ01-001		Aroclor-1248	UJ	low SU recovery (54%)
NB4PZ01-001		Aroclor-1254	UJ	low SU recovery (54%)
NB4PZ01-001		Aroclor-1260	UJ	low SU recovery (54%)
NB4PZ01-001		1,1,2,2-Tetrachloroethane	UJ	calibration drift (%D = -24%)
NB4PZ01-001		1,2,3-Trichloropropane	UJ	calibration drift (%D= -24)
NB4PZ01-001		1,2-Dibromo-3-chloropropane	UJ	calibration drift (%D= -26)
NB4PZ01-001		2-Butanone	UJ	calibration drift (%D= -36), low LCS/LCSD ave recovery (55.5%)
NB4PZ01-001		2-Hexanone	UJ	calibration drift (%D= -30)

## QUALIFIED DATA TABLE

Field Sample Identification	Total_or_dissolved	Analyte	Data Qualifier	Reason for Qualification
NB4PZ01-001		4-Methyl-2-pentanone	UJ	calibration drift (%D= -36)
NB4PZ01-001		Acetone	U	equipment blank contamination (0.00925 JB mg/L), field blank contamination (0.00703 JB mg/L), calibration drift (%D= -33), result is between SDL and SQL
NB4PZ01-001		Acrylonitrile	UJ	calibration drift (%D= -21)
NB4PZ01-001		Methyl Acetate	UJ	calibration drift (%D= -24)
NB4PZ01-001		Methylene chloride	U	laboratory blank contamination (0.00143 J mg/L), result is between SDL and SQL
NB4PZ01-001		n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (GW)
NB4PZ01-001		tert-Butyl methyl ether (MTBE)	UJ	calibration drift (%D= -21)
NB4PZ01-001		trans-1,4-Dichloro-2-butene	UJ	calibration drift (%D= -26)
NB4PZ01-001		2,4,5-Trichlorophenol	UJ	2 low Acid SU recoveries (49%, 45%)
NB4PZ01-001		2,4,6-Trichlorophenol	UJ	2 low Acid SU recoveries (49%, 45%)
NB4PZ01-001		2,4-Dichlorophenol	UJ	2 low Acid SU recoveries (49%, 45%)
NB4PZ01-001		2,4-Dimethylphenol	UJ	poor calibration fit (%RSD=16), 2 low Acid SU recoveries (49%, 45%)
NB4PZ01-001		2,4-Dinitrophenol	UJ	2 low Acid SU recoveries (49%, 45%)
NB4PZ01-001		2-Chlorophenol	UJ	2 low Acid SU recoveries (49%, 45%)
NB4PZ01-001		2-Nitrophenol	UJ	2 low Acid SU recoveries (49%, 45%)
NB4PZ01-001		4,6-Dinitro-2-methylphenol	UJ	2 low Acid SU recoveries (49%, 45%)
NB4PZ01-001		4-Chloro-3-methylphenol	UJ	2 low Acid SU recoveries (49%, 45%)
NB4PZ01-001		4-Nitrophenol	UJ	low LCS/LCSD ave recovery (43.5%), low MS/MSD ave recovery (50%), 2 low Acid SU recoveries (49%, 45%)
NB4PZ01-001		Aniline	UJ	low LCS/LCSD ave recovery (49%), low MS/MSD ave recovery (34%)
NB4PZ01-001		Benzaldehyde	U	equipment blank contamination (0.00366 J mg/L), field blank contamination (0.00371 J mg/L), poor calibration fit (%RSD=48), result is between SDL and SQL
NB4PZ01-001		Benzidine	R	extremely low MS/MSD ave recovery (0%), poor calibration fit (%RSD=27), calibration drift (%D= -37)
NB4PZ01-001		Benzo(a)pyrene	UJ	poor calibration fit (%RSD=18)
NB4PZ01-001		Benzoic acid	U	equipment blank contamination (0.0021 J mg/L), low LCS/LCSD ave recovery (39.5%), result is between SDL and SQL
NB4PZ01-001		Bis(2-Ethylhexyl)phthalate	U	laboratory blank contamination (0.012 mg/L), equipment blank contamination (0.013 B mg/L), field blank contamination (0.012 B mg/L)
NB4PZ01-001		Caprolactam	UJ	low LCS/LCSD ave recovery (31.5%), low MS/MSD ave recovery (39.5%)
NB4PZ01-001		Di-n-butyl phthalate	U	equipment blank contamination (0.00308 J mg/L), field blank contamination (0.00302 J mg/L)
NB4PZ01-001		Hexachlorocyclopentadiene	UJ	low LCS/LCSD ave recovery (38%), low MS/MSD ave recovery (41.5%)
NB4PZ01-001		Hexachloroethane	UJ	low LCS/LCSD ave recovery (59%), low MS/MSD ave recovery (50.5%)
NB4PZ01-001		m,p-Cresol	UJ	2 low Acid SU recoveries (49%, 45%)
NB4PZ01-001		n-Nitrosodimethylamine	UJ	poor calibration fit (%RSD=21), calibration drift (%D= -39), low LCS/LCSD ave recovery (49%), low MS/MSD ave recovery (49.5%)
NB4PZ01-001		o-Cresol	UJ	2 low Acid SU recoveries (49%, 45%)
NB4PZ01-001		Pentachlorophenol	UJ	poor calibration fit (%RSD=20), 2 low Acid SU recoveries (49%, 45%)
NB4PZ01-001		Phenol	UJ	low LCS/LCSD ave recovery (32.5%), low MS/MSD ave recovery (52%), 2 low Acid SU recoveries (49%, 45%)
NB4PZ01-001		Pyridine	UJ	poor calibration fit (%RSD=28)
ND1PZ03-003	total	Aluminum	J	result is between SDL and SQL

## QUALIFIED DATA TABLE

Field Sample Identification	Total_or_dissolved	Analyte	Data Qualifier	Reason for Qualification
ND1PZ03-003	total	Antimony	J	result is between SDL and SQL
ND1PZ03-003	total	Chromium	J	large difference between field duplicate pair (> 2 x MQL)
ND1PZ03-003	total	Nickel	J	result is between SDL and SQL
ND1PZ03-003	total	Silver	J	result is between SDL and SQL
ND1PZ03-003	total	Vanadium	J	result is between SDL and SQL
ND1PZ03-003	total	Mercury	U	laboratory blank contamination (0.00006 B mg/L), equipment blank contamination (0.00007 B mg/L), field blank contamination (0.0001 B mg/L), low MS/MSD ave recovery (54.5%), result is between SDL and SQL
ND1PZ03-003		4,4'-DDT	U	equipment blank contamination (0.000015 J mg/L), field blank contamination (0.000022 J mg/L), result is between SDL and SQL
ND1PZ03-003		beta-BHC	J+	high MS/MSD ave recovery (211%)
ND1PZ03-003		Endosulfan I	UJ	low LCS/LCSD ave recovery (54.5%)
ND1PZ03-003		Endosulfan II	J	result is between SDL and SQL
ND1PZ03-003		Heptachlor	UJ	calibration drift (%D= -16)
ND1PZ03-003		Aroclor-1016	UJ	calibration drift (%D= -17 to -22 %), low SU recovery (59%)
ND1PZ03-003		Aroclor-1221	UJ	low SU recovery (59%)
ND1PZ03-003		Aroclor-1232	UJ	low SU recovery (59%)
ND1PZ03-003		Aroclor-1242	UJ	low SU recovery (59%)
ND1PZ03-003		Aroclor-1248	UJ	low SU recovery (59%)
ND1PZ03-003		Aroclor-1254	UJ	low SU recovery (59%)
ND1PZ03-003		Aroclor-1260	UJ	calibration drift (%D= -17), low SU recovery (59%)
ND2MW01-001	total	Antimony	J	result is between SDL and SQL
ND2MW01-001	total	Barium	J	result is between SDL and SQL
ND2MW01-001	total	Boron	J	result is between SDL and SQL
ND2MW01-001	total	Chromium	J	large difference between field duplicate pair (> 2 x MQL)
ND2MW01-001	total	Nickel	U	equipment blank contamination (0.0011 B mg/L), result is between SDL and SQL
ND2MW01-001	total	Silver	J	result is between SDL and SQL
ND2MW01-001	total	Vanadium	J	result is between SDL and SQL
ND2MW01-001		Chromium VI	UJ	low MS/MSD ave recovery (37%)
ND2MW01-001	total	Mercury	U	laboratory blank contamination (0.00006 B mg/L), equipment blank contamination (0.00007 B mg/L), field blank contamination (0.0001 B mg/L), low MS/MSD ave recovery (54.5%), result is between SDL and SQL
ND2MW01-001		Aldrin	U	equipment blank contamination (0.0000355 mg/L), field blank contamination (0.0000372 mg/L)
ND2MW01-001		Dieldrin	J	result is between SDL and SQL
ND2MW01-001		Endosulfan I	UJ	low LCS/LCSD ave recovery (54.5%)
ND2MW01-001		gamma-BHC (Lindane)	J	poor MS/MSD precision (41 RPD)
ND2MW01-001		Heptachlor	UJ	calibration drift (%D= -16)
ND2MW01-001		Aroclor-1016	UJ	calibration drift (%D= -17 to -22 %)
ND2MW01-001		Aroclor-1260	UJ	calibration drift (%D= -17)
ND2MW01-001		1,1,2,2-Tetrachloroethane	UJ	calibration drift (%D = -24%)
ND2MW01-001		1,2,3-Trichloropropane	J-	calibration drift (%D= -24)
ND2MW01-001		1,2-Dibromo-3-chloropropane	UJ	calibration drift (%D= -26)
ND2MW01-001		1,2-Dichloropropane	J	result is between SDL and SQL
ND2MW01-001		2-Butanone	UJ	calibration drift (%D= -36), low LCS/LCSD ave recovery (55.5%)
ND2MW01-001		2-Hexanone	UJ	calibration drift (%D= -30)
ND2MW01-001		4-Methyl-2-pentanone	UJ	calibration drift (%D= -36)

## QUALIFIED DATA TABLE

Field Sample Identification	Total_or_dissolved	Analyte	Data Qualifier	Reason for Qualification
ND2MW01-001		Acetone	UJ	calibration drift (%D= -33)
ND2MW01-001		Acrylonitrile	UJ	calibration drift (%D= -21)
ND2MW01-001		Benzene	J	result is between SDL and SQL
ND2MW01-001		Methyl Acetate	UJ	calibration drift (%D= -24)
ND2MW01-001		n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (GW)
ND2MW01-001		tert-Butyl methyl ether (MTBE)	UJ	calibration drift (%D= -21)
ND2MW01-001		trans-1,4-Dichloro-2-butene	UJ	calibration drift (%D= -26)
ND2MW01-001		2,4,5-Trichlorophenol	UJ	2 low Acid SU recoveries (52%, 44%)
ND2MW01-001		2,4,6-Trichlorophenol	UJ	2 low Acid SU recoveries (52%, 44%)
ND2MW01-001		2,4-Dichlorophenol	UJ	2 low Acid SU recoveries (52%, 44%)
ND2MW01-001		2,4-Dimethylphenol	UJ	2 low Acid SU recoveries (52%, 44%)
ND2MW01-001		2,4-Dinitrophenol	UJ	2 low Acid SU recoveries (52%, 44%)
ND2MW01-001		2-Chlorophenol	UJ	2 low Acid SU recoveries (52%, 44%)
ND2MW01-001		2-Nitrophenol	UJ	2 low Acid SU recoveries (52%, 44%)
ND2MW01-001		4,6-Dinitro-2-methylphenol	UJ	2 low Acid SU recoveries (52%, 44%)
ND2MW01-001		4-Chloro-3-methylphenol	UJ	2 low Acid SU recoveries (52%, 44%)
ND2MW01-001		4-Nitrophenol	UJ	low LCS/LCSD ave recovery (43.5%), low MS/MSD ave recovery (50%), 2 low Acid SU recoveries (52%, 44%)
ND2MW01-001		Acetophenone	U	equipment blank contamination (0.00271 J mg/L), field blank contamination (0.00248 J mg/L), result is between SDL and SQL
ND2MW01-001		Aniline	UJ	calibration drift (%D= -26), low LCS/LCSD ave recovery (49%), low MS/MSD ave recovery (34%)
ND2MW01-001		Atrazine (Aatrex)	UJ	calibration drift (%D= -24)
ND2MW01-001		Benzaldehyde	UJ	calibration drift (%D= -27)
ND2MW01-001		Benzidine	R	extremely low MS/MSD ave recovery (0%), poor calibration fit (%RSD=50), calibration drift (%D= -34)
ND2MW01-001		Benzoic acid	UJ	low LCS/LCSD ave recovery (39.5%)
ND2MW01-001		Benzyl alcohol	U	equipment blank contamination (0.000474 J mg/L), field blank contamination (0.000445 J mg/L), result is between SDL and SQL
ND2MW01-001		Bis(2-Ethylhexyl)phthalate	U	laboratory blank contamination (0.012 mg/L), equipment blank contamination (0.013 B mg/L), field blank contamination (0.012 B mg/L)
ND2MW01-001		Caprolactam	UJ	low LCS/LCSD ave recovery (31.5%), low MS/MSD ave recovery (39.5%)
ND2MW01-001		Di-n-octyl phthalate	UJ	poor calibration fit (%RSD=17)
ND2MW01-001		Hexachlorocyclopentadiene	UJ	low LCS/LCSD ave recovery (38%), low MS/MSD ave recovery (41.5%)
ND2MW01-001		Hexachloroethane	UJ	low LCS/LCSD ave recovery (59%), low MS/MSD ave recovery (50.5%)
ND2MW01-001		m,p-Cresol	J-	2 low Acid SU recoveries (52%, 44%)
ND2MW01-001		n-Nitrosodimethylamine	UJ	poor calibration fit (%RSD=28), low LCS/LCSD ave recovery (49%), low MS/MSD ave recovery (49.5%)
ND2MW01-001		n-Nitrosodi-n-propylamine	UJ	calibration drift (%D= -21)
ND2MW01-001		o-Cresol	J	result is between SDL and SQL, 2 low Acid SU recoveries (52%, 44%)
ND2MW01-001		Pentachlorophenol	UJ	2 low Acid SU recoveries (52%, 44%)
ND2MW01-001		Phenol	UJ	low LCS/LCSD ave recovery (32.5%), low MS/MSD ave recovery (52%), 2 low Acid SU recoveries (52%, 44%)
ND2MW01-001		Pyridine	UJ	poor calibration fit (%RSD=24)
ND3MW02-002	total	Aluminum	J	result is between SDL and SQL
ND3MW02-002	total	Antimony	J	result is between SDL and SQL
ND3MW02-002	total	Boron	J	result is between SDL and SQL

## QUALIFIED DATA TABLE

Field Sample Identification	Total or dissolved	Analyte	Data Qualifier	Reason for Qualification
ND3MW02-002	total	Chromium	J	large difference between field duplicate pair (> 2 x MQL)
ND3MW02-002	total	Nickel	J	result is between SDL and SQL
ND3MW02-002	total	Silver	J	result is between SDL and SQL
ND3MW02-002		Chromium VI	UJ	low MS/MSD ave recovery (37%)
ND3MW02-002	total	Mercury	U	laboratory blank contamination (0.00006 B mg/L), equipment blank contamination (0.00007 B mg/L), field blank contamination (0.0001 B mg/L), low MS/MSD ave recovery (54.5%), result is between SDL and SQL
ND3MW02-002		4,4'-DDT	U	equipment blank contamination (0.000015 J mg/L), field blank contamination (0.000022 J mg/L), result is between SDL and SQL
ND3MW02-002		delta-BHC	J	result is between SDL and SQL
ND3MW02-002		Endosulfan I	UJ	low LCS/LCSD ave recovery (54.5%)
ND3MW02-002		Endosulfan II	J	result is between SDL and SQL
ND3MW02-002		gamma-BHC (Lindane)	J	poor MS/MSD precision (41 RPD)
ND3MW02-002		Heptachlor	UJ	calibration drift (%D= -16)
ND3MW02-002		Aroclor-1016	UJ	calibration drift (%D= -17 to -22 %), low SU recovery (52%)
ND3MW02-002		Aroclor-1221	UJ	low SU recovery (52%)
ND3MW02-002		Aroclor-1232	UJ	low SU recovery (52%)
ND3MW02-002		Aroclor-1242	UJ	low SU recovery (52%)
ND3MW02-002		Aroclor-1248	UJ	low SU recovery (52%)
ND3MW02-002		Aroclor-1254	UJ	low SU recovery (52%)
ND3MW02-002		Aroclor-1260	UJ	calibration drift (%D= -17), low SU recovery (52%)
ND3MW02-002		1,1,2,2-Tetrachloroethane	UJ	calibration drift (%D = -24%)
ND3MW02-002		1,2,3-Trichloropropane	J-	calibration drift (%D= -24)
ND3MW02-002		1,2-Dibromo-3-chloropropane	UJ	calibration drift (%D= -26)
ND3MW02-002		1,2-Dichloroethane	J	result is between SDL and SQL
ND3MW02-002		2-Butanone	UJ	calibration drift (%D= -36), low LCS/LCSD ave recovery (55.5%)
ND3MW02-002		2-Hexanone	UJ	calibration drift (%D= -30)
ND3MW02-002		4-Methyl-2-pentanone	UJ	calibration drift (%D= -36)
ND3MW02-002		Acetone	J	calibration drift (%D= -33), result is between SDL and SQL
ND3MW02-002		Acrylonitrile	UJ	calibration drift (%D= -21)
ND3MW02-002		Benzene	J	result is between SDL and SQL
ND3MW02-002		Methyl Acetate	UJ	calibration drift (%D= -24)
ND3MW02-002		Methylene chloride	U	laboratory blank contamination (0.00143 J mg/L), result is between SDL and SQL
ND3MW02-002		n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (GW)
ND3MW02-002		tert-Butyl methyl ether (MTBE)	UJ	calibration drift (%D= -21)
ND3MW02-002		Toluene	J	result is between SDL and SQL
ND3MW02-002		trans-1,4-Dichloro-2-butene	UJ	calibration drift (%D= -26)
ND3MW02-002		2,4,5-Trichlorophenol	UJ	2 low Acid SU recoveries (40%, 30%)
ND3MW02-002		2,4,6-Trichlorophenol	UJ	2 low Acid SU recoveries (40%, 30%)
ND3MW02-002		2,4-Dichlorophenol	UJ	2 low Acid SU recoveries (40%, 30%)
ND3MW02-002		2,4-Dimethylphenol	UJ	2 low Acid SU recoveries (40%, 30%)
ND3MW02-002		2,4-Dinitrophenol	UJ	2 low Acid SU recoveries (40%, 30%)
ND3MW02-002		2-Chlorophenol	UJ	2 low Acid SU recoveries (40%, 30%)
ND3MW02-002		2-Methylnaphthalene	U	equipment blank contamination (0.000329 J mg/L), result is between SDL and SQL
ND3MW02-002		2-Nitrophenol	UJ	2 low Acid SU recoveries (40%, 30%)

## QUALIFIED DATA TABLE

Field Sample Identification	Total_or_dissolved	Analyte	Data Qualifier	Reason for Qualification
ND3MW02-002		4,6-Dinitro-2-methylphenol	UJ	2 low Acid SU recoveries (40%, 30%)
ND3MW02-002		4-Chloro-3-methylphenol	UJ	2 low Acid SU recoveries (40%, 30%)
ND3MW02-002		4-Chloroaniline	U	equipment blank contamination (0.00144 J mg/L), field blank contamination (0.00126 J mg/L), result is between <u>SDL</u> and <u>SQL</u>
ND3MW02-002		4-Nitrophenol	UJ	low LCS/LCSD ave recovery (43.5%), low MS/MSD ave recovery (50%), 2 low Acid SU recoveries (40%, 30%)
ND3MW02-002		Acetophenone	U	equipment blank contamination (0.00271 J mg/L), field blank contamination (0.00248 J mg/L), result is between <u>SDL</u> and <u>SQL</u>
ND3MW02-002		Aniline	U	equipment blank contamination (0.000711 J mg/L), calibration drift (%D= -26), low LCS/LCSD ave recovery (49%), low MS/MSD ave recovery (34%), result is between <u>SDL</u> and <u>SQL</u>
ND3MW02-002		Anthracene	J	result is between <u>SDL</u> and <u>SQL</u>
ND3MW02-002		Atrazine (Aatrex)	UJ	calibration drift (%D= -24)
ND3MW02-002		Benzaldehyde	UJ	calibration drift (%D= -27)
ND3MW02-002		Benzidine	R	extremely low MS/MSD ave recovery (0%), poor calibration fit (%RSD=50), calibration drift (%D= -34)
ND3MW02-002		Benzoic acid	UJ	low LCS/LCSD ave recovery (39.5%)
ND3MW02-002		Bis(2-Ethylhexyl)phthalate	U	laboratory blank contamination (0.012 mg/L), equipment blank contamination (0.013 B mg/L), field blank contamination (0.012 B mg/L)
ND3MW02-002		Caprolactam	UJ	low LCS/LCSD ave recovery (31.5%), low MS/MSD ave recovery (39.5%)
ND3MW02-002		Carbazole	J	result is between <u>SDL</u> and <u>SQL</u>
ND3MW02-002		Di-n-butyl phthalate	U	equipment blank contamination (0.00308 J mg/L), field blank contamination (0.00302 J mg/L), result is between <u>SDL</u> and <u>SQL</u>
ND3MW02-002		Di-n-octyl phthalate	UJ	poor calibration fit (%RSD=17)
ND3MW02-002		Fluorene	J	result is between <u>SDL</u> and <u>SQL</u>
ND3MW02-002		Hexachlorocyclopentadiene	UJ	low LCS/LCSD ave recovery (38%), low MS/MSD ave recovery (41.5%)
ND3MW02-002		Hexachloroethane	UJ	low LCS/LCSD ave recovery (59%), low MS/MSD ave recovery (50.5%)
ND3MW02-002		m,p-Cresol	UJ	2 low Acid SU recoveries (40%, 30%)
ND3MW02-002		n-Nitrosodimethylamine	UJ	poor calibration fit (%RSD=28), low LCS/LCSD ave recovery (49%), low MS/MSD ave recovery (49.5%)
ND3MW02-002		n-Nitrosodi-n-propylamine	UJ	calibration drift (%D= -21)
ND3MW02-002		o-Cresol	UJ	2 low Acid SU recoveries (40%, 30%)
ND3MW02-002		Pentachlorophenol	UJ	2 low Acid SU recoveries (40%, 30%)
ND3MW02-002		Phenol	UJ	low LCS/LCSD ave recovery (32.5%), low MS/MSD ave recovery (52%), 2 low Acid SU recoveries (40%, 30%)
ND3MW02-002		Pyridine	UJ	poor calibration fit (%RSD=24)
NE1MW04-004	total	Antimony	J	result is between <u>SDL</u> and <u>SQL</u>
NE1MW04-004	total	Barium	J	result is between <u>SDL</u> and <u>SQL</u>
NE1MW04-004	total	Boron	J	result is between <u>SDL</u> and <u>SQL</u>
NE1MW04-004	total	Chromium	J	large difference between field duplicate pair (> 2 x MQL)
NE1MW04-004	total	Nickel	U	equipment blank contamination (0.0011 B mg/L), result is between <u>SDL</u> and <u>SQL</u>
NE1MW04-004	total	Silver	J	result is between <u>SDL</u> and <u>SQL</u>
NE1MW04-004	total	Vanadium	J	result is between <u>SDL</u> and <u>SQL</u>
NE1MW04-004		Chromium VI	UJ	low MS/MSD ave recovery (37%)
NE1MW04-004	total	Mercury	U	laboratory blank contamination (0.00006 B mg/L), equipment blank contamination (0.00007 B mg/L), field blank contamination (0.0001 B mg/L), low MS/MSD ave recovery (54.5%), result is between <u>SDL</u> and <u>SQL</u>

## QUALIFIED DATA TABLE

Field Sample Identification	Total_or_dissolved	Analyte	Data Qualifier	Reason for Qualification
NE1MW04-004		4,4'-DDT	U	equipment blank contamination (0.000015 J mg/L), field blank contamination (0.000022 J mg/L), result is between <u>SDL</u> and <u>SQL</u>
NE1MW04-004		Endosulfan I	UJ	low LCS/LCSD ave recovery (54.5%)
NE1MW04-004		Endosulfan II	J	result is between <u>SDL</u> and <u>SQL</u>
NE1MW04-004		Heptachlor	UJ	calibration drift (%D= -16)
NE1MW04-004		Aroclor-1016	UJ	calibration drift (%D= -17 to -22 %), low SU recovery (44%)
NE1MW04-004		Aroclor-1221	UJ	low SU recovery (44%)
NE1MW04-004		Aroclor-1232	UJ	low SU recovery (44%)
NE1MW04-004		Aroclor-1242	UJ	low SU recovery (44%)
NE1MW04-004		Aroclor-1248	UJ	low SU recovery (44%)
NE1MW04-004		Aroclor-1254	UJ	low SU recovery (44%)
NE1MW04-004		Aroclor-1260	UJ	calibration drift (%D= -17), low SU recovery (44%)
NE1MW04-004		1,2-Dichloropropane	J	result is between <u>SDL</u> and <u>SQL</u>
NE1MW04-004		4-Methyl-2-pentanone	UJ	calibration drift (%D= -23)
NE1MW04-004		n-Butyl alcohol	UJ	low instrument response (low RRF); elevate <u>SDL</u> for NDs 2x (GW)
NE1MW04-004		Vinyl chloride	J	result is between <u>SDL</u> and <u>SQL</u>
NE1MW04-004		2,4,5-Trichlorophenol	UJ	2 low Acid SU recoveries (51%, 35%)
NE1MW04-004		2,4,6-Trichlorophenol	UJ	2 low Acid SU recoveries (51%, 35%)
NE1MW04-004		2,4-Dichlorophenol	UJ	2 low Acid SU recoveries (51%, 35%)
NE1MW04-004		2,4-Dimethylphenol	UJ	2 low Acid SU recoveries (51%, 35%)
NE1MW04-004		2,4-Dinitrophenol	UJ	2 low Acid SU recoveries (51%, 35%)
NE1MW04-004		2-Chlorophenol	UJ	2 low Acid SU recoveries (51%, 35%)
NE1MW04-004		2-Nitrophenol	UJ	2 low Acid SU recoveries (51%, 35%)
NE1MW04-004		4,6-Dinitro-2-methylphenol	UJ	2 low Acid SU recoveries (51%, 35%)
NE1MW04-004		4-Chloro-3-methylphenol	UJ	2 low Acid SU recoveries (51%, 35%)
NE1MW04-004		4-Nitrophenol	UJ	low LCS/LCSD ave recovery (43.5%), low MS/MSD ave recovery (50%), 2 low Acid SU recoveries (51%, 35%)
NE1MW04-004		Aniline	UJ	calibration drift (%D= -26), low LCS/LCSD ave recovery (49%), low MS/MSD ave recovery (34%)
NE1MW04-004		Atrazine (Aatrex)	UJ	calibration drift (%D= -24)
NE1MW04-004		Benzaldehyde	UJ	calibration drift (%D= -27)
NE1MW04-004		Benzidine	R	extremely low MS/MSD ave recovery (0%), poor calibration fit (%RSD=50), calibration drift (%D= -34)
NE1MW04-004		Benzo(b)fluoranthene	J	result is between <u>SDL</u> and <u>SQL</u>
NE1MW04-004		Benzo(g,h,i)perylene	J	result is between <u>SDL</u> and <u>SQL</u>
NE1MW04-004		Benzoic acid	UJ	low LCS/LCSD ave recovery (39.5%)
NE1MW04-004		Bis(2-Ethylhexyl)phthalate	U	laboratory blank contamination (0.012 mg/L), equipment blank contamination (0.013 B mg/L), field blank contamination (0.012 B mg/L), result is between <u>SDL</u> and <u>SQL</u>
NE1MW04-004		Caprolactam	UJ	low LCS/LCSD ave recovery (31.5%), low MS/MSD ave recovery (39.5%)
NE1MW04-004		Dibenz(a,h)anthracene	J	result is between <u>SDL</u> and <u>SQL</u>
NE1MW04-004		Di-n-octyl phthalate	UJ	poor calibration fit (%RSD=17)
NE1MW04-004		Hexachlorocyclopentadiene	UJ	low LCS/LCSD ave recovery (38%), low MS/MSD ave recovery (41.5%)
NE1MW04-004		Hexachloroethane	UJ	low LCS/LCSD ave recovery (59%), low MS/MSD ave recovery (50.5%)
NE1MW04-004		Indeno(1,2,3-cd)pyrene	J	result is between <u>SDL</u> and <u>SQL</u>
NE1MW04-004		m,p-Cresol	UJ	2 low Acid SU recoveries (51%, 35%)
NE1MW04-004		n-Nitrosodimethylamine	UJ	poor calibration fit (%RSD=28), low LCS/LCSD ave recovery (49%), low MS/MSD ave recovery (49.5%)

## QUALIFIED DATA TABLE

Field Sample Identification	Total_or_dissolved	Analyte	Data Qualifier	Reason for Qualification
NE1MW04-004		n-Nitrosodi-n-propylamine	UJ	calibration drift (%D= -21)
NE1MW04-004		o-Cresol	UJ	2 low Acid SU recoveries (51%, 35%)
NE1MW04-004		Pentachlorophenol	UJ	2 low Acid SU recoveries (51%, 35%)
NE1MW04-004		Phenol	UJ	low LCS/LCSD ave recovery (32.5%), low MS/MSD ave recovery (52%), 2 low Acid SU recoveries (51%, 35%)
NE1MW04-004		Pyridine	UJ	poor calibration fit (%RSD=24)
NF1PZ05-005	total	Antimony	J	result is between SDL and SQL
NF1PZ05-005	total	Barium	J	result is between SDL and SQL
NF1PZ05-005	total	Boron	J	result is between SDL and SQL
NF1PZ05-005	total	Chromium	J	large difference between field duplicate pair (> 2 x MQL)
NF1PZ05-005	total	Nickel	U	equipment blank contamination (0.0011 B mg/L), result is between SDL and SQL
NF1PZ05-005	total	Silver	J	result is between SDL and SQL
NF1PZ05-005		Chromium VI	UJ	low MS/MSD ave recovery (37%)
NF1PZ05-005	total	Mercury	U	laboratory blank contamination (0.00006 B mg/L), equipment blank contamination (0.00007 B mg/L), field blank contamination (0.0001 B mg/L), low MS/MSD ave recovery (54.5%), result is between SDL and SQL
NF1PZ05-005		4,4'-DDT	U	equipment blank contamination (0.000015 J mg/L), field blank contamination (0.000022 J mg/L), result is between SDL and SQL
NF1PZ05-005		Endosulfan I	UJ	low LCS/LCSD ave recovery (54.5%)
NF1PZ05-005		Endosulfan II	J	result is between SDL and SQL
NF1PZ05-005		Heptachlor	UJ	calibration drift (%D= -16)
NF1PZ05-005		Aroclor-1016	UJ	calibration drift (%D= -17 to -22 %), low SU recovery (41%)
NF1PZ05-005		Aroclor-1221	UJ	low SU recovery (41%)
NF1PZ05-005		Aroclor-1232	UJ	low SU recovery (41%)
NF1PZ05-005		Aroclor-1242	UJ	low SU recovery (41%)
NF1PZ05-005		Aroclor-1248	UJ	low SU recovery (41%)
NF1PZ05-005		Aroclor-1254	UJ	low SU recovery (41%)
NF1PZ05-005		Aroclor-1260	UJ	calibration drift (%D= -17), low SU recovery (41%)
NF1PZ05-005		4-Methyl-2-pentanone	UJ	calibration drift (%D= -23)
NF1PZ05-005		Acetone	U	equipment blank contamination (0.00925 JB mg/L), field blank contamination (0.00703 JB mg/L), result is between SDL and SQL
NF1PZ05-005		n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (GW)
NF1PZ05-005		2,4-Dimethylphenol	UJ	poor calibration fit (%RSD=16)
NF1PZ05-005		4-Nitrophenol	UJ	low LCS/LCSD ave recovery (43.5%), low MS/MSD ave recovery (50%)
NF1PZ05-005		Aniline	UJ	low LCS/LCSD ave recovery (49%), low MS/MSD ave recovery (34%)
NF1PZ05-005		Benzaldehyde	UJ	poor calibration fit (%RSD=48)
NF1PZ05-005		Benzidine	R	extremely low MS/MSD ave recovery (0%), poor calibration fit (%RSD=27), calibration drift (%D= -37)
NF1PZ05-005		Benzo(a)pyrene	UJ	poor calibration fit (%RSD=18)
NF1PZ05-005		Benzoic acid	UJ	low LCS/LCSD ave recovery (39.5%)
NF1PZ05-005		Caprolactam	UJ	low LCS/LCSD ave recovery (31.5%), low MS/MSD ave recovery (39.5%)
NF1PZ05-005		Hexachlorocyclopentadiene	UJ	low LCS/LCSD ave recovery (38%), low MS/MSD ave recovery (41.5%)
NF1PZ05-005		Hexachloroethane	UJ	low LCS/LCSD ave recovery (59%), low MS/MSD ave recovery (50.5%)
NF1PZ05-005		n-Nitrosodimethylamine	UJ	poor calibration fit (%RSD=21), calibration drift (%D= -39), low LCS/LCSD ave recovery (49%), low MS/MSD ave recovery (49.5%)

## QUALIFIED DATA TABLE

Field Sample Identification	Total or dissolved	Analyte	Data Qualifier	Reason for Qualification
NF1PZ05-005		Pentachlorophenol	UJ	poor calibration fit (%RSD=20)
NF1PZ05-005		Phenol	UJ	low LCS/LCSD ave recovery (32.5%), low MS/MSD ave recovery (52%)
NF1PZ05-005		Pyridine	UJ	poor calibration fit (%RSD=28)
NF2MW06-006	total	Antimony	J	result is between SDL and SQL
NF2MW06-006	total	Boron	J	result is between SDL and SQL
NF2MW06-006	total	Chromium	J	large difference between field duplicate pair (> 2 x MQL)
NF2MW06-006	total	Nickel	U	equipment blank contamination (0.0011 B mg/L), result is between SDL and SQL
NF2MW06-006	total	Silver	J	result is between SDL and SQL
NF2MW06-006		Chromium VI	UJ	low MS/MSD ave recovery (37%)
NF2MW06-006	total	Mercury	U	laboratory blank contamination (0.00006 B mg/L), equipment blank contamination (0.00007 B mg/L), field blank contamination (0.0001 B mg/L), low MS/MSD ave recovery (54.5%), result is between SDL and SQL
NF2MW06-006		Aldrin	U	equipment blank contamination (0.0000355 mg/L), field blank contamination (0.0000372 mg/L), result is between SDL and SQL
NF2MW06-006		beta-BHC	J+	high MS/MSD ave recovery (211%)
NF2MW06-006		Endosulfan I	UJ	low LCS/LCSD ave recovery (54.5%)
NF2MW06-006		Endosulfan sulfate	J	result is between SDL and SQL
NF2MW06-006		gamma-BHC (Lindane)	U	field blank contamination (0.000014 J mg/L), poor MS/MSD precision (41 RPD)
NF2MW06-006		Heptachlor	UJ	calibration drift (%D= -16)
NF2MW06-006		Aroclor-1016	UJ	calibration drift (%D= -17 to -22 %)
NF2MW06-006		Aroclor-1260	UJ	calibration drift (%D= -17)
NF2MW06-006		1,1-Dichloroethane	J	result is between SDL and SQL
NF2MW06-006		1,2-Dichloropropane	J	result is between SDL and SQL
NF2MW06-006		4-Methyl-2-pentanone	UJ	calibration drift (%D= -23)
NF2MW06-006		Benzene	J	result is between SDL and SQL
NF2MW06-006		n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (GW)
NF2MW06-006		Tetrachloroethene	J	result is between SDL and SQL
NF2MW06-006		2,4,5-Trichlorophenol	UJ	2 low Acid SU recoveries (43%, 26%)
NF2MW06-006		2,4,6-Trichlorophenol	UJ	2 low Acid SU recoveries (43%, 26%)
NF2MW06-006		2,4-Dichlorophenol	UJ	2 low Acid SU recoveries (43%, 26%)
NF2MW06-006		2,4-Dimethylphenol	UJ	2 low Acid SU recoveries (43%, 26%)
NF2MW06-006		2,4-Dinitrophenol	UJ	2 low Acid SU recoveries (43%, 26%)
NF2MW06-006		2-Chlorophenol	UJ	2 low Acid SU recoveries (43%, 26%)
NF2MW06-006		2-Nitrophenol	UJ	2 low Acid SU recoveries (43%, 26%)
NF2MW06-006		4,6-Dinitro-2-methylphenol	UJ	2 low Acid SU recoveries (43%, 26%)
NF2MW06-006		4-Chloro-3-methylphenol	UJ	2 low Acid SU recoveries (43%, 26%)
NF2MW06-006		4-Nitrophenol	UJ	low LCS/LCSD ave recovery (43.5%), low MS/MSD ave recovery (50%), 2 low Acid SU recoveries (43%, 26%)
NF2MW06-006		Aniline	J-	calibration drift (%D= -26), low LCS/LCSD ave recovery (49%), low MS/MSD ave recovery (34%)
NF2MW06-006		Atrazine (Aatrex)	UJ	calibration drift (%D= -24)
NF2MW06-006		Benzaldehyde	UJ	calibration drift (%D= -27)
NF2MW06-006		Benzidine	R	extremely low MS/MSD ave recovery (0%), poor calibration fit (%RSD=50), calibration drift (%D= -34)
NF2MW06-006		Benzoic acid	UJ	low LCS/LCSD ave recovery (39.5%)
NF2MW06-006		Bis(2-Ethylhexyl)phthalate	U	laboratory blank contamination (0.012 mg/L), equipment blank contamination (0.013 B mg/L), field blank contamination (0.012 B mg/L)
NF2MW06-006		Caprolactam	UJ	low LCS/LCSD ave recovery (31.5%), low MS/MSD ave

## QUALIFIED DATA TABLE

Field Sample Identification	Total_or_dissolved	Analyte	Data Qualifier	Reason for Qualification
				recovery (39.5%)
NF2MW06-006		Di-n-butyl phthalate	U	equipment blank contamination (0.00308 J mg/L), field blank contamination (0.00302 J mg/L), result is between SDL and SQL
NF2MW06-006		Di-n-octyl phthalate	UJ	poor calibration fit (%RSD=17)
NF2MW06-006		Hexachlorocyclopentadiene	UJ	low LCS/LCSD ave recovery (38%), low MS/MSD ave recovery (41.5%)
NF2MW06-006		Hexachloroethane	UJ	low LCS/LCSD ave recovery (59%), low MS/MSD ave recovery (50.5%)
NF2MW06-006		m,p-Cresol	UJ	2 low Acid SU recoveries (43%, 26%)
NF2MW06-006		n-Nitrosodimethylamine	UJ	poor calibration fit (%RSD=28), low LCS/LCSD ave recovery (49%), low MS/MSD ave recovery (49.5%)
NF2MW06-006		n-Nitrosodi-n-propylamine	UJ	calibration drift (%D= -21)
NF2MW06-006		o-Cresol	UJ	2 low Acid SU recoveries (43%, 26%)
NF2MW06-006		Pentachlorophenol	UJ	2 low Acid SU recoveries (43%, 26%)
NF2MW06-006		Phenol	UJ	low LCS/LCSD ave recovery (32.5%), low MS/MSD ave recovery (52%), 2 low Acid SU recoveries (43%, 26%)
NF2MW06-006		Pyridine	UJ	poor calibration fit (%RSD=24)
SA4PZ07-007	total	Antimony	J	result is between SDL and SQL
SA4PZ07-007	total	Boron	J	result is between SDL and SQL
SA4PZ07-007	total	Chromium	J	large difference between field duplicate pair (> 2 x MQL)
SA4PZ07-007	total	Nickel	J	result is between SDL and SQL
SA4PZ07-007	total	Silver	J	result is between SDL and SQL
SA4PZ07-007	total	Vanadium	J	result is between SDL and SQL
SA4PZ07-007	total	Mercury	U	laboratory blank contamination (0.00006 B mg/L), equipment blank contamination (0.00007 B mg/L), field blank contamination (0.0001 B mg/L), low MS/MSD ave recovery (54.5%), result is between SDL and SQL
SA4PZ07-007		4,4'-DDT	U	equipment blank contamination (0.000015 J mg/L), field blank contamination (0.000022 J mg/L), result is between SDL and SQL
SA4PZ07-007		Endosulfan I	UJ	low LCS/LCSD ave recovery (54.5%)
SA4PZ07-007		Endosulfan II	J	result is between SDL and SQL
SA4PZ07-007		Heptachlor	UJ	calibration drift (%D= -16)
SA4PZ07-007		Aroclor-1016	UJ	calibration drift (%D= -17 to -22 %), low SU recovery (54%)
SA4PZ07-007		Aroclor-1221	UJ	low SU recovery (54%)
SA4PZ07-007		Aroclor-1232	UJ	low SU recovery (54%)
SA4PZ07-007		Aroclor-1242	UJ	low SU recovery (54%)
SA4PZ07-007		Aroclor-1248	UJ	low SU recovery (54%)
SA4PZ07-007		Aroclor-1254	UJ	low SU recovery (54%)
SA4PZ07-007		Aroclor-1260	UJ	calibration drift (%D= -17), low SU recovery (54%)
SA4PZ07-007		2,4,5-Trichlorophenol	UJ	2 low Acid SU recoveries (47%, 36%)
SA4PZ07-007		2,4,6-Trichlorophenol	UJ	2 low Acid SU recoveries (47%, 36%)
SA4PZ07-007		2,4-Dichlorophenol	UJ	2 low Acid SU recoveries (47%, 36%)
SA4PZ07-007		2,4-Dimethylphenol	UJ	2 low Acid SU recoveries (47%, 36%)
SA4PZ07-007		2,4-Dinitrophenol	UJ	2 low Acid SU recoveries (47%, 36%)
SA4PZ07-007		2-Chlorophenol	UJ	2 low Acid SU recoveries (47%, 36%)
SA4PZ07-007		2-Nitrophenol	UJ	2 low Acid SU recoveries (47%, 36%)
SA4PZ07-007		4,6-Dinitro-2-methylphenol	UJ	2 low Acid SU recoveries (47%, 36%)
SA4PZ07-007		4-Chloro-3-methylphenol	UJ	2 low Acid SU recoveries (47%, 36%)
SA4PZ07-007		4-Chloroaniline	U	equipment blank contamination (0.00144 J mg/L), field blank contamination (0.00126 J mg/L), result is between SDL and SQL
SA4PZ07-007		4-Nitrophenol	UJ	low LCS/LCSD ave recovery (43.5%), low MS/MSD ave

## QUALIFIED DATA TABLE

Field Sample Identification	Total or dissolved	Analyte	Data Qualifier	Reason for Qualification
				recovery (50%), 2 low Acid SU recoveries (47%, 36%)
SA4PZ07-007		Aniline	UJ	calibration drift (%D= -26), low LCS/LCSD ave recovery (49%), low MS/MSD ave recovery (34%)
SA4PZ07-007		Atrazine (Aatrex)	UJ	calibration drift (%D= -24)
SA4PZ07-007		Benzaldehyde	UJ	calibration drift (%D= -27)
SA4PZ07-007		Benzidine	R	extremely low MS/MSD ave recovery (0%), poor calibration fit (%RSD=50), calibration drift (%D= -34)
SA4PZ07-007		Benzoic acid	U	equipment blank contamination (0.0021 J mg/L), low LCS/LCSD ave recovery (39.5%), result is between SDL and SQL
SA4PZ07-007		Bis(2-Ethylhexyl)phthalate	U	laboratory blank contamination (0.012 mg/L), equipment blank contamination (0.013 B mg/L), field blank contamination (0.012 B mg/L)
SA4PZ07-007		Caprolactam	UJ	low LCS/LCSD ave recovery (31.5%), low MS/MSD ave recovery (39.5%)
SA4PZ07-007		Di-n-butyl phthalate	U	equipment blank contamination (0.00308 J mg/L), field blank contamination (0.00302 J mg/L)
SA4PZ07-007		Di-n-octyl phthalate	UJ	poor calibration fit (%RSD=17)
SA4PZ07-007		Hexachlorocyclopentadiene	UJ	low LCS/LCSD ave recovery (38%), low MS/MSD ave recovery (41.5%)
SA4PZ07-007		Hexachloroethane	UJ	low LCS/LCSD ave recovery (59%), low MS/MSD ave recovery (50.5%)
SA4PZ07-007		m,p-Cresol	UJ	2 low Acid SU recoveries (47%, 36%)
SA4PZ07-007		n-Nitrosodimethylamine	UJ	poor calibration fit (%RSD=28), low LCS/LCSD ave recovery (49%), low MS/MSD ave recovery (49.5%)
SA4PZ07-007		n-Nitrosodi-n-propylamine	UJ	calibration drift (%D= -21)
SA4PZ07-007		o-Cresol	UJ	2 low Acid SU recoveries (47%, 36%)
SA4PZ07-007		Pentachlorophenol	UJ	2 low Acid SU recoveries (47%, 36%)
SA4PZ07-007		Phenol	UJ	low LCS/LCSD ave recovery (32.5%), low MS/MSD ave recovery (52%), 2 low Acid SU recoveries (47%, 36%)
SA4PZ07-007		Pyridine	UJ	poor calibration fit (%RSD=24)
SL8MW17-017	total	Aluminum	J	result is between SDL and SQL
SL8MW17-017	total	Antimony	J	result is between SDL and SQL
SL8MW17-017	total	Boron	J	result is between SDL and SQL
SL8MW17-017	total	Chromium	J	large difference between field duplicate pair (> 2 x MQL), result is between SDL and SQL
SL8MW17-017	total	Lithium	J	result is between SDL and SQL
SL8MW17-017	total	Nickel	J	result is between SDL and SQL
SL8MW17-017	total	Selenium	J	result is between SDL and SQL
SL8MW17-017	total	Silver	J	result is between SDL and SQL
SL8MW17-017	total	Titanium	J	result is between SDL and SQL
SL8MW17-017		Chromium VI	UJ	low MS/MSD ave recovery (37%)
SL8MW17-017	total	Mercury	UJ	low MS/MSD ave recovery (48%)
SL8MW17-017		4,4'-DDT	U	equipment blank contamination (0.000015 J mg/L), field blank contamination (0.000022 J mg/L), result is between SDL and SQL
SL8MW17-017		Endosulfan I	UJ	low LCS/LCSD ave recovery (54.5%)
SL8MW17-017		Heptachlor	UJ	calibration drift (%D= -16)
SL8MW17-017		Aroclor-1016	UJ	calibration drift (%D= -17 to -22 %), low SU recovery (41%)
SL8MW17-017		Aroclor-1221	UJ	low SU recovery (41%)
SL8MW17-017		Aroclor-1232	UJ	low SU recovery (41%)
SL8MW17-017		Aroclor-1242	UJ	low SU recovery (41%)
SL8MW17-017		Aroclor-1248	UJ	low SU recovery (41%)
SL8MW17-017		Aroclor-1254	UJ	low SU recovery (41%)
SL8MW17-017		Aroclor-1260	UJ	calibration drift (%D= -17), low SU recovery (41%)

## QUALIFIED DATA TABLE

Field Sample Identification	Total_or_dissolved	Analyte	Data Qualifier	Reason for Qualification
SL8MW17-017		4-Methyl-2-pentanone	UJ	calibration drift (%D= -23)
SL8MW17-017		n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (GW)
SL8MW17-017		2,4,5-Trichlorophenol	UJ	2 low Acid SU recoveries (44%, 30%)
SL8MW17-017		2,4,6-Trichlorophenol	UJ	2 low Acid SU recoveries (44%, 30%)
SL8MW17-017		2,4-Dichlorophenol	UJ	2 low Acid SU recoveries (44%, 30%)
SL8MW17-017		2,4-Dimethylphenol	UJ	2 low Acid SU recoveries (44%, 30%)
SL8MW17-017		2,4-Dinitrophenol	UJ	2 low Acid SU recoveries (44%, 30%)
SL8MW17-017		2-Chlorophenol	UJ	2 low Acid SU recoveries (44%, 30%)
SL8MW17-017		2-Nitrophenol	UJ	2 low Acid SU recoveries (44%, 30%)
SL8MW17-017		4,6-Dinitro-2-methylphenol	UJ	2 low Acid SU recoveries (44%, 30%)
SL8MW17-017		4-Chloro-3-methylphenol	UJ	2 low Acid SU recoveries (44%, 30%)
SL8MW17-017		4-Chloroaniline	U	equipment blank contamination (0.00144 J mg/L), field blank contamination (0.00126 J mg/L), result is between SDL and SQL
SL8MW17-017		4-Nitrophenol	UJ	low LCS/LCSD ave recovery (43.5%), low MS/MSD ave recovery (50%), 2 low Acid SU recoveries (44%, 30%)
SL8MW17-017		Aniline	U	equipment blank contamination (0.000711 J mg/L), calibration drift (%D= -26), low LCS/LCSD ave recovery (49%), low MS/MSD ave recovery (34%), result is between SDL and SQL
SL8MW17-017		Atrazine (Aatrex)	UJ	calibration drift (%D= -24)
SL8MW17-017		Benzaldehyde	UJ	calibration drift (%D= -27)
SL8MW17-017		Benzidine	R	extremely low MS/MSD ave recovery (0%), poor calibration fit (%RSD=50), calibration drift (%D= -34)
SL8MW17-017		Benzoic acid	UJ	low LCS/LCSD ave recovery (39.5%)
SL8MW17-017		Bis(2-Ethylhexyl)phthalate	U	laboratory blank contamination (0.012 mg/L), equipment blank contamination (0.013 B mg/L), field blank contamination (0.012 B mg/L)
SL8MW17-017		Caprolactam	UJ	low LCS/LCSD ave recovery (31.5%), low MS/MSD ave recovery (39.5%)
SL8MW17-017		Di-n-butyl phthalate	U	equipment blank contamination (0.00308 J mg/L), field blank contamination (0.00302 J mg/L), result is between SDL and SQL
SL8MW17-017		Di-n-octyl phthalate	UJ	poor calibration fit (%RSD=17)
SL8MW17-017		Hexachlorocyclopentadiene	UJ	low LCS/LCSD ave recovery (38%), low MS/MSD ave recovery (41.5%)
SL8MW17-017		Hexachloroethane	UJ	low LCS/LCSD ave recovery (59%), low MS/MSD ave recovery (50.5%)
SL8MW17-017		m,p-Cresol	UJ	2 low Acid SU recoveries (44%, 30%)
SL8MW17-017		n-Nitrosodimethylamine	UJ	poor calibration fit (%RSD=28), low LCS/LCSD ave recovery (49%), low MS/MSD ave recovery (49.5%)
SL8MW17-017		n-Nitrosodi-n-propylamine	UJ	calibration drift (%D= -21)
SL8MW17-017		o-Cresol	UJ	2 low Acid SU recoveries (44%, 30%)
SL8MW17-017		Pentachlorophenol	UJ	2 low Acid SU recoveries (44%, 30%)
SL8MW17-017		Phenol	UJ	low LCS/LCSD ave recovery (32.5%), low MS/MSD ave recovery (52%), 2 low Acid SU recoveries (44%, 30%)
SL8MW17-017		Pyridine	UJ	poor calibration fit (%RSD=24)

## ATTACHMENT 1

Sample_ID	Lab_Sample_ID	Test_type_code	Analytical_Method	Total_or_dissolved	Matrix	Parameter	Valid_qualifier	Result_type_code	Prep_date	Prep_time	Analysis_Date	Analysis_Time	QC_comment	QC_Batch
EB-506	2.0608E+10	EQBK	SW6010B	total	W	Aluminum	U to RRs < 5 x BlankEquivConc (none)	TRG	8/4/2006	15:00	8/7/2006	12:54	equipment blank contamination (0.025 B mg/L)	329679
FB-506	2.0608E+10	FLDBK	SW6010B	total	W	Aluminum	U to RRs < 5 x BlankEquivConc (none)	TRG	8/4/2006	15:00	8/7/2006	13:26	field blank contamination (0.033 B mg/L)	329679
MB for HBN 329567 [DIGM/12364]	397759	LB	SW6010B	total	W	Barium	U to RRs < 5 x BlankEquivConc (none)	TRG	8/4/2006	15:00	8/7/2006	12:06	laboratory blank contamination (0.00058 B mg/L)	329679
EB-506	2.0608E+10	EQBK	SW6010B	total	W	Barium	U to RRs < 5 x BlankEquivConc (none)	TRG	8/4/2006	15:00	8/7/2006	12:54	equipment blank contamination (0.001 B mg/L)	329679
MB for HBN 329866 [DIGM/12400]	399319	LB	SW6010B	total	W	Beryllium	U to RRs < 5 x BlankEquivConc (none)	TRG	8/9/2006	10:45	8/10/2006	10:01	laboratory blank contamination (0.00011 B mg/L)	330191
EB-506	2.0608E+10	EQBK	SW6010B	total	W	Boron	U to RRs < 5 x BlankEquivConc (none)	TRG	8/4/2006	15:00	8/7/2006	12:54	equipment blank contamination (0.019 B mg/L)	329679
EB-508	2.0608E+10	EQBK	SW6010B	total	W	Boron	U to RRs < 5 x BlankEquivConc (none)	TRG	8/4/2006	15:00	8/7/2006	13:01	equipment blank contamination (0.013 B mg/L)	329679
FB-506	2.0608E+10	FLDBK	SW6010B	total	W	Boron	U to RRs < 5 x BlankEquivConc (none)	TRG	8/4/2006	15:00	8/7/2006	13:26	field blank contamination (0.013 B mg/L)	329679
FB-508	2.0608E+10	FLDBK	SW6010B	total	W	Boron	U to RRs < 5 x BlankEquivConc (none)	TRG	8/4/2006	15:00	8/7/2006	13:20	field blank contamination (0.021 B mg/L)	329679
EB-506	2.0608E+10	EQBK	SW6010B	total	W	Chromium	U to RRs < 5 x BlankEquivConc (none)	TRG	8/4/2006	15:00	8/7/2006	12:54	equipment blank contamination (0.001 B mg/L)	329679
MW-500	2.0608E+10	SMP	SW6010B	total	W	Chromium	J / UJ to RRs/NDs	TRG	38933	0.625	38936	0.58819444	large difference between field duplicate pair (> 2 x MQL)	329679
EB-506	2.0608E+10	EQBK	SW6010B	total	W	Hardness	U to RRs < 5 x BlankEquivConc (none)	TRG	8/4/2006	15:00	8/7/2006	12:54	equipment blank contamination (0.68 mg/L)	329679
EB-508	2.0608E+10	EQBK	SW6010B	total	W	Hardness	U to RRs < 5 x BlankEquivConc (none)	TRG	8/4/2006	15:00	8/7/2006	13:01	equipment blank contamination (0.72 mg/L)	329679
FB-506	2.0608E+10	FLDBK	SW6010B	total	W	Hardness	U to RRs < 5 x BlankEquivConc (none)	TRG	8/4/2006	15:00	8/7/2006	13:26	field blank contamination (0.19 B mg/L)	329679
ND2MW01-001 MSD	2.0608E+10	MSD	SW6010B	total	W	Hardness	none (waived due to high parent conc)	TRG	8/4/2006	15:00	8/7/2006	12:34	high MS/MSD ave recovery (2843.5%)	329679
SL8MW17-017 MSD	2.0608E+10	MSD	SW6010B	total	W	Hardness	none (waived due to high parent conc)	TRG	8/9/2006	10:45	8/10/2006	10:30	high MS/MSD ave recovery (1018%)	330191
ND2MW01-001 MSD	2.0608E+10	MSD	SW6010B	total	W	Lithium	none (waived due to high parent conc)	TRG	8/4/2006	15:00	8/7/2006	12:34	high MS/MSD ave recovery (160%)	329679
MB for HBN 329567 [DIGM/12364]	397759	LB	SW6010B	total	W	Manganese	U to RRs < 5 x BlankEquivConc (none)	TRG	8/4/2006	15:00	8/7/2006	12:06	laboratory blank contamination (0.0056 B mg/L)	329679
EB-506	2.0608E+10	EQBK	SW6010B	total	W	Manganese	U to RRs < 5 x BlankEquivConc (none)	TRG	8/4/2006	15:00	8/7/2006	12:54	equipment blank contamination (0.0044 B mg/L)	329679

## ATTACHMENT 1

Sample_ID	Lab_Sample_ID	Test_type_code	Analytical_Method	Total_or_dissolved	Matrix	Parameter	Valid_qualifier	Result_type_code	Prep_date	Prep_time	Analysis_Date	Analysis_Time	QC_comment	QC_Batch
EB-508	2.0608E+10	EQBK	SW6010B	total	W	Manganese	U to RRs < 5 x BlankEquivConc (none)	TRG	8/4/2006	15:00	8/7/2006	13:01	equipment blank contamination (0.0019 B mg/L)	329679
FB-506	2.0608E+10	FLDBK	SW6010B	total	W	Manganese	U to RRs < 5 x BlankEquivConc (none)	TRG	8/4/2006	15:00	8/7/2006	13:26	field blank contamination (0.016 mg/L)	329679
ND2MW01-001 MSD	2.0608E+10	MSD	SW6010B	total	W	Manganese	none (waived due to high parent conc)	TRG	8/4/2006	15:00	8/7/2006	12:34	extremely low MS/MSD ave recovery (-17%)	329679
EB-506	2.0608E+10	EQBK	SW6010B	total	W	Nickel	U to RRs < 5 x BlankEquivConc	TRG	8/4/2006	15:00	8/7/2006	12:54	equipment blank contamination (0.0011 B mg/L)	329679
EB-506	2.0608E+10	EQBK	SW6010B	total	W	Strontium	U to RRs < 5 x BlankEquivConc (none)	TRG	8/4/2006	15:00	8/7/2006	12:54	equipment blank contamination (0.0019 B mg/L)	329679
EB-508	2.0608E+10	EQBK	SW6010B	total	W	Strontium	U to RRs < 5 x BlankEquivConc (none)	TRG	8/4/2006	15:00	8/7/2006	13:01	equipment blank contamination (0.0019 B mg/L)	329679
FB-508	2.0608E+10	FLDBK	SW6010B	total	W	Strontium	U to RRs < 5 x BlankEquivConc (none)	TRG	8/4/2006	15:00	8/7/2006	13:20	field blank contamination (0.00099 B mg/L)	329679
ND2MW01-001 MSD	2.0608E+10	MSD	SW6010B	total	W	Strontium	none (waived due to high parent conc)	TRG	8/4/2006	15:00	8/7/2006	12:34	high MS/MSD ave recovery (345%)	329679
SL8MW17-017 MSD	2.0608E+10	MSD	SW6010B	total	W	Strontium	none (waived due to high parent conc)	TRG	8/9/2006	10:45	8/10/2006	10:30	high MS/MSD ave recovery (207%)	330191
EB-506	2.0608E+10	EQBK	SW6010B	total	W	Vanadium	U to RRs < 5 x BlankEquivConc (none)	TRG	8/4/2006	15:00	8/7/2006	12:54	equipment blank contamination (0.00073 B mg/L)	329679
FB-508	2.0608E+10	FLDBK	SW6010B	total	W	Vanadium	U to RRs < 5 x BlankEquivConc (none)	TRG	8/4/2006	15:00	8/7/2006	13:20	field blank contamination (0.00072 B mg/L)	329679
EB-506	2.0608E+10	EQBK	SW6010B	total	W	Zinc	U to RRs < 5 x BlankEquivConc (none)	TRG	8/4/2006	15:00	8/7/2006	12:54	equipment blank contamination (0.0056 B mg/L)	329679
EB-508	2.0608E+10	EQBK	SW6010B	total	W	Zinc	U to RRs < 5 x BlankEquivConc (none)	TRG	8/4/2006	15:00	8/7/2006	13:01	equipment blank contamination (0.0033 B mg/L)	329679
FB-506	2.0608E+10	FLDBK	SW6010B	total	W	Zinc	U to RRs < 5 x BlankEquivConc (none)	TRG	8/4/2006	15:00	8/7/2006	13:26	field blank contamination (0.0039 B mg/L)	329679
ND2MW01-001 MSD	2.0608E+10	MSD	SW7196A		W	Chromium VI	J- / UJ to NDs/RRs	TRG			8/4/2006	11:55	low MS/MSD ave recovery (37%)	329669
MB for HBN 329568 [DIGM/12365]	397761	LB	SW7470A	total	W	Mercury	U to RRs < 5 x BlankEquivConc	TRG	8/4/2006	15:00	8/5/2006	11:34	laboratory blank contamination (0.00006 B mg/L)	329592
EB-506	2.0608E+10	EQBK	SW7470A	total	W	Mercury	U to RRs < 5 x BlankEquivConc	TRG	8/4/2006	15:00	8/5/2006	12:01	equipment blank contamination (0.00007 B mg/L)	329592
EB-508	2.0608E+10	EQBK	SW7470A	total	W	Mercury	U to RRs < 5 x BlankEquivConc	TRG	8/4/2006	15:00	8/5/2006	12:09	equipment blank contamination (0.00007 B mg/L)	329592
FB-506	2.0608E+10	FLDBK	SW7470A	total	W	Mercury	U to RRs < 5 x BlankEquivConc	TRG	8/4/2006	15:00	8/5/2006	12:11	field blank contamination (0.0001 B mg/L)	329592

## ATTACHMENT 1

Sample_ID	Lab_Sample_ID	Test_type_code	Analytical_Method	Total_or_dissolved	Matrix	Parameter	Valid_qualifier	Result_type_code	Prep_date	Prep_time	Analysis_Date	Analysis_Time	QC_comment	QC_Batch
FB-508	2.0608E+10	FLDBK	SW7470A	total	W	Mercury	U to RRs < 5 x BlankEquivConc	TRG	8/4/2006	15:00	8/5/2006	12:03	field blank contamination (0.00008 B mg/L)	329592
ND2MW01-001 MSD	2.0608E+10	MSD	SW7470A	total	W	Mercury	J- / UJ to NDs/RRs	TRG	8/4/2006	15:00	8/5/2006	11:43	low MS/MSD ave recovery (54.5%)	329592
SL8MW17-017 MSD	2.0608E+10	MSD	SW7470A	total	W	Mercury	J- / UJ to NDs/RRs	TRG	8/9/2006	10:45	8/10/2006	16:39	low MS/MSD ave recovery (48%)	330193
ND2MW01-001 MSD	2.0608E+10	MSD	SW8081A		W	4,4'-DDE	none (waived due to high parent conc)	TRG	8/6/2006	9:30	8/7/2006	23:10	extremely low MS/MSD ave recovery (-30%)	329857
EB-508	2.0608E+10	EQBK	SW8081A		W	4,4'-DDT	U to RRs < 5 x BlankEquivConc	TRG	8/6/2006	9:30	8/8/2006	4:46	equipment blank contamination (0.000015 J mg/L)	329857
FB-506	2.0608E+10	FLDBK	SW8081A		W	4,4'-DDT	U to RRs < 5 x BlankEquivConc	TRG	8/6/2006	9:30	8/8/2006	5:04	field blank contamination (0.0000172 J mg/L)	329857
FB-508	2.0608E+10	FLDBK	SW8081A		W	4,4'-DDT	U to RRs < 5 x BlankEquivConc	TRG	8/6/2006	9:30	8/8/2006	2:35	field blank contamination (0.000022 J mg/L)	329857
EB-508	2.0608E+10	EQBK	SW8081A		W	Aldrin	U to RRs < 5 x BlankEquivConc	TRG	8/6/2006	9:30	8/8/2006	4:46	equipment blank contamination (0.0000355 mg/L)	329857
FB-508	2.0608E+10	FLDBK	SW8081A		W	Aldrin	U to RRs < 5 x BlankEquivConc	TRG	8/6/2006	9:30	8/8/2006	2:35	field blank contamination (0.0000372 mg/L)	329857
ND2MW01-001 MSD	2.0608E+10	MSD	SW8081A		W	beta-BHC	J+ to RRs	TRG	8/6/2006	9:30	8/7/2006	23:10	high MS/MSD ave recovery (211%)	329857
LCSD for HBN 329573 [EXTO/1440]	397803	LCSD	SW8081A		W	Endosulfan I	J- / UJ to NDs/RRs	TRG	8/6/2006	9:30	8/7/2006	20:59	low LCS/LCSD ave recovery (54.5%)	329857
FB-506	2.0608E+10	FLDBK	SW8081A		W	gamma-BHC (Lindane)	U to RRs < 5 x BlankEquivConc	TRG	8/6/2006	9:30	8/8/2006	5:04	field blank contamination (0.000011 J mg/L)	329857
FB-508	2.0608E+10	FLDBK	SW8081A		W	gamma-BHC (Lindane)	U to RRs < 5 x BlankEquivConc	TRG	8/6/2006	9:30	8/8/2006	2:35	field blank contamination (0.000014 J mg/L)	329857
ND2MW01-001 MSD	2.0608E+10	MSD	SW8081A		W	gamma-BHC (Lindane)	none (waived due to high parent conc)	TRG	8/6/2006	9:30	8/7/2006	23:10	extremely low MS/MSD ave recovery (29.5%)	329857
ND2MW01-001 MSD	2.0608E+10	MSD	SW8081A		W	gamma-BHC (Lindane)	J to RRs	TRG	8/6/2006	9:30	8/7/2006	23:10	poor MS/MSD precision (41 RPD)	329857
ND2MW01-001 MSD	2.0608E+10	MSD	SW8081A		W	gamma-Chlordane	J+ to RRs (none)	TRG	8/6/2006	9:30	8/7/2006	23:10	high MS/MSD ave recovery (161.5%)	329857
EB-508	2.0608E+10	EQBK	SW8081A		W	Heptachlor	U to RRs < 5 x BlankEquivConc	TRG	8/6/2006	9:30	8/8/2006	4:46	equipment blank contamination (0.000025 mg/L)	329857
x 0	2060807sv16b04	CCV2	SW8081A			Heptachlor	J- / UJ to RRs/NDs	Pest			8/8/06	0:06	calibration drift (%D= -16)	
ND2MW01-001 MSD	2.0608E+10	MSD	SW8081A		W	Heptachlor	J+ to RRs	TRG	8/6/2006	9:30	8/7/2006	23:10	high MS/MSD ave recovery (159%)	329857

## ATTACHMENT 1

Sample_ID	Lab_Sample_ID	Test_type_code	Analytical_Method	Total_or_dissolved	Matrix	Parameter	Valid_qualifier	Result_type_code	Prep_date	Prep_time	Analysis_Date	Analysis_Time	QC_comment	QC_Batch
NE1MW04-004	2.0608E+10	SMP	SW8081A		W	Decachlorobiphenyl	none (only one of multiple surrogates is deficient)	SUR	8/6/2006	9:30	8/7/2006	21:55	low SU recovery (44%)	329857
NF1PZ05-005	2.0608E+10	SMP	SW8081A		W	Decachlorobiphenyl	none (only one of multiple surrogates is deficient)	SUR	8/6/2006	9:30	8/7/2006	22:14	low SU recovery (41%)	329857
ND3MW02-002	2.0608E+10	SMP	SW8081A		W	Decachlorobiphenyl	none (only one of multiple surrogates is deficient)	SUR	8/6/2006	9:30	8/8/2006	1:20	low SU recovery (52%)	329857
MW-500	2.0608E+10	SMP	SW8081A		W	Decachlorobiphenyl	none (only one of multiple surrogates is deficient)	SUR	8/6/2006	9:30	8/8/2006	1:39	low SU recovery (47%)	329857
SL8MW17-017	2.0608E+10	SMP	SW8081A		W	Decachlorobiphenyl	none (only one of multiple surrogates is deficient)	SUR	8/6/2006	9:30	8/8/2006	1:58	low SU recovery (41%)	329857
ND1PZ03-003	2.0608E+10	SMP	SW8081A		W	Decachlorobiphenyl	none (only one of multiple surrogates is deficient)	SUR	8/6/2006	9:30	8/8/2006	2:54	low SU recovery (59%)	329857
SA4PZ07-007	2.0608E+10	SMP	SW8081A		W	Decachlorobiphenyl	none (only one of multiple surrogates is deficient)	SUR	8/6/2006	9:30	8/8/2006	3:12	low SU recovery (54%)	329857
NB4PZ01-001	2.0608E+10	SMP	SW8081A		W	Decachlorobiphenyl	none (only one of multiple surrogates is deficient)	SUR	8/6/2006	9:30	8/8/2006	4:27	low SU recovery (54%)	329857
x	2060807sv16a027	CCV1	SW8082			AR 1016-Peak1	J- / UJ to RRs/NDs	Aro			8/7/06	19:44	calibration drift (%D= -20)	
x	2060807sv16a041	CCV1	SW8082			AR 1016-Peak1	J- / UJ to RRs/NDs	Aro			8/8/06	0:06	calibration drift (%D= -22)	
x	2060807sv16a041	CCV1	SW8082			AR 1016-Peak4	J- / UJ to RRs/NDs	Aro			8/8/06	0:06	calibration drift (%D= -17)	
x	2060807sv16a054	CCV1	SW8082			AR 1016-Peak1	J- / UJ to RRs/NDs	Aro			8/8/06	4:08	calibration drift (%D= -20)	
x	2060807sv16a060	CCV1	SW8082			AR 1016-Peak1	J- / UJ to RRs/NDs	Aro			8/8/06	6:00	calibration drift (%D= -16)	
x	2060807sv16a041	CCV1	SW8082			AR 1260-Peak1	J- / UJ to RRs/NDs	Aro			8/8/06	0:06	calibration drift (%D= -17)	
ND2MW01-001	2.0608E+10	MSD	SW8082		W	Aroclor-1016	J to RRs (none)	TRG	8/6/2006	9:30	8/8/2006	0:43	poor MS/MSD precision (54 RPD)	329858
NE1MW04-004	2.0608E+10	SMP	SW8082		W	Decachlorobiphenyl	J- / UJ to NDs/RRs	SUR	8/6/2006	9:30	8/7/2006	21:55	low SU recovery (44%)	329858
NF1PZ05-005	2.0608E+10	SMP	SW8082		W	Decachlorobiphenyl	J- / UJ to NDs/RRs	SUR	8/6/2006	9:30	8/7/2006	22:14	low SU recovery (41%)	329858
ND3MW02-002	2.0608E+10	SMP	SW8082		W	Decachlorobiphenyl	J- / UJ to NDs/RRs	SUR	8/6/2006	9:30	8/8/2006	1:20	low SU recovery (52%)	329858
MW-500	2.0608E+10	SMP	SW8082		W	Decachlorobiphenyl	J- / UJ to NDs/RRs	SUR	8/6/2006	9:30	8/8/2006	1:39	low SU recovery (47%)	329858

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Sample_ID	Lab_Sample_ID	Test_type_code	Analytical_Method	Total_or_dissolved	Matrix	Parameter	Valid_qualifier	Result_type_code	Prep_date	Prep_time	Analysis_Date	Analysis_Time	QC_comment	QC_Batch
SL8MW17-017	2.0608E+10	SMP	SW8082		W	Decachlorobiphenyl	J- / UJ to NDs/RRs	SUR	8/6/2006	9:30	8/8/2006	1:58	low SU recovery (41%)	329858
ND1PZ03-003	2.0608E+10	SMP	SW8082		W	Decachlorobiphenyl	J- / UJ to NDs/RRs	SUR	8/6/2006	9:30	8/8/2006	2:54	low SU recovery (59%)	329858
SA4PZ07-007	2.0608E+10	SMP	SW8082		W	Decachlorobiphenyl	J- / UJ to NDs/RRs	SUR	8/6/2006	9:30	8/8/2006	3:12	low SU recovery (54%)	329858
NB4PZ01-001	2.0608E+10	SMP	SW8082		W	Decachlorobiphenyl	J- / UJ to NDs/RRs	SUR	8/6/2006	9:30	8/8/2006	4:27	low SU recovery (54%)	329858
x	U8762	CCV1	SW8260B			1,1,2,2-Tetrachloroethane	J- / UJ to RRs/NDs	VOC			8/11/06	7:39	calibration drift (%D= -24)	
x	U8762	CCV1	SW8260B			1,2,3-Trichloropropane	J- / UJ to RRs/NDs	VOC			8/11/06	7:39	calibration drift (%D= -24)	
x	U8762	CCV1	SW8260B			1,2-Dibromo-3-chloropropane	J- / UJ to RRs/NDs	VOC			8/11/06	7:39	calibration drift (%D= -26)	
x	U8762	CCV1	SW8260B			2-Butanone	J- / UJ to RRs/NDs	VOC			8/11/06	7:39	calibration drift (%D= -36)	
LCSD for HBN 330298 [MSV/8848]	400090	LCSD	SW8260B		W	2-Butanone	J- / UJ to NDs/RRs	TRG			8/11/2006	8:41	low LCS/LCSD ave recovery (55.5%)	330298
x	U8762	CCV1	SW8260B			2-Hexanone	J- / UJ to RRs/NDs	VOC			8/11/06	7:39	calibration drift (%D= -30)	
x	U8742	CCV1	SW8260B			4-Methyl-2-pentanone	J- / UJ to RRs/NDs	VOC			8/10/06	20:45	calibration drift (%D= -23)	
x	U8762	CCV1	SW8260B			4-Methyl-2-pentanone	J- / UJ to RRs/NDs	VOC			8/11/06	7:39	calibration drift (%D= -36)	
EB-506	2.0608E+10	EQBK	SW8260B		W	Acetone	U to RRs < 10 x BlankEquivConc	TRG			8/6/2006	16:40	equipment blank contamination (0.00925 JB mg/L)	329645
EB-508	2.0608E+10	EQBK	SW8260B		W	Acetone	U to RRs < 10 x BlankEquivConc	TRG			8/6/2006	17:32	equipment blank contamination (0.00672 JB mg/L)	329645
FB-506	2.0608E+10	FLDBK	SW8260B		W	Acetone	U to RRs < 10 x BlankEquivConc	TRG			8/6/2006	17:58	field blank contamination (0.00529 JB mg/L)	329645
FB-508	2.0608E+10	FLDBK	SW8260B		W	Acetone	U to RRs < 10 x BlankEquivConc	TRG			8/6/2006	17:06	field blank contamination (0.00703 JB mg/L)	329645
x	U8762	CCV1	SW8260B			Acetone	J- / UJ to RRs/NDs	VOC			8/11/06	7:39	calibration drift (%D= -33)	
x	U8762	CCV1	SW8260B			Acrylonitrile	J- / UJ to RRs/NDs	VOC			8/11/06	7:39	calibration drift (%D= -21)	
x	U8742	CCV1	SW8260B			Bromomethane	J+ to RRs (none)	VOC			8/10/06	20:45	calibration drift (%D= 183)	

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Sample_ID	Lab_Sample_ID	Test_type_code	Analytical_Method	Total_or_dissolved	Matrix	Parameter	Valid_qualifier	Result_type_code	Prep_date	Prep_time	Analysis_Date	Analysis_Time	QC_comment	QC_Batch
x	U8762	CCV1	SW8260B			Bromomethane	J+ to RRs (none)	VOC			8/11/06	7:39	calibration drift (%D= 156)	
LCSD for HBN 330281 [MSV/8846]	400041	LCSD	SW8260B		W	Bromomethane	J+ to RRs (none)	TRG			8/10/2006	22:10	high LCS/LCSD ave recovery (216%)	330281
LCSD for HBN 330298 [MSV/8848]	400090	LCSD	SW8260B		W	Bromomethane	J+ to RRs (none)	TRG			8/11/2006	8:41	high LCS/LCSD ave recovery (279.5%)	330298
ND2MW01-001 MSD	2.0608E+10	MSD	SW8260B		W	Bromomethane	J+ to RRs (none)	TRG			8/11/2006	13:40	high MS/MSD ave recovery (206%)	330298
x	U8762	CCV1	SW8260B			Methyl acetate	J- / UJ to RRs/NDs	VOC			8/11/06	7:39	calibration drift (%D= -24)	
x	U8742	CCV1	SW8260B			Methyl iodide	J+ to RRs (none)	VOC			8/10/06	20:45	calibration drift (%D= 22)	
MB for HBN 330298 [MSV/8848]	400088	LB	SW8260B		W	Methylene chloride	U to RRs < 10 x BlankEquivConc	TRG			8/11/2006	9:33	laboratory blank contamination (0.00143 J mg/L)	330298
ND2MW01-001 MSD	2.0608E+10	MSD	SW8260B		W	Methylene chloride	none (waived due to high parent conc)	TRG			8/11/2006	13:40	low MS/MSD ave recovery (40%)	330298
x	U8762	CCV1	SW8260B			MTBE	J- / UJ to RRs/NDs	VOC			8/11/06	7:39	calibration drift (%D= -21)	
x	U7857	ICAL2	SW8260B			n-Butyl alcohol	J / UJ to RRs/NDs	App9			7/21/06	8:08	low instrument response (low RRF); elevate SDL for NDs 2x (GW)	
x	U8762	CCV1	SW8260B			trans-1,4-Dichloro-2-butene	J- / UJ to RRs/NDs	VOC			8/11/06	7:39	calibration drift (%D= -26)	
ND2MW01-001 MSD	2.0608E+10	MSD	SW8260B		W	Trichlorofluoromethane	J to RRs (none)	TRG			8/11/2006	13:40	poor MS/MSD precision (65 RPD)	330298
x	C0656	ICAL1	SW8270C			2,4-Dimethylphenol	J / UJ to RRs/NDs	SVOC			8/10/06	9:59	poor calibration fit (%RSD=16)	
EB-508	2.0608E+10	EQBK	SW8270C		W	2-Methylnaphthalene	U to RRs < 5 x BlankEquivConc	TRG	8/5/2006	10:00	8/11/2006	10:16	equipment blank contamination (0.000329 J mg/L)	330309
EB-506	2.0608E+10	EQBK	SW8270C		W	4-Chloroaniline	U to RRs < 5 x BlankEquivConc	TRG	8/5/2006	10:00	8/7/2006	0:49	equipment blank contamination (0.00144 J mg/L)	329692
FB-508	2.0608E+10	FLDBK	SW8270C		W	4-Chloroaniline	U to RRs < 5 x BlankEquivConc	TRG	8/5/2006	10:00	8/7/2006	1:03	field blank contamination (0.00126 J mg/L)	329692
x	C0695	CCV1	SW8270C			4-Nitroaniline	J+ to RRs (none)	SVOC			8/11/06	7:20	calibration drift (%D= 28)	
LCSD for HBN 329575 [EXTO/1440]	397809	LCSD	SW8270C		W	4-Nitrophenol	J- / UJ to NDs/RRs	TRG	8/5/2006	10:00	8/6/2006	22:22	low LCS/LCSD ave recovery (43.5%)	329692
ND2MW01-001 MSD	2.0608E+10	MSD	SW8270C		W	4-Nitrophenol	J- / UJ to NDs/RRs	TRG	8/5/2006	10:00	8/6/2006	23:34	low MS/MSD ave recovery (50%)	329692

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EB-506	2.0608E+10	EQBK	SW8270C		W	Acetophenone	U to RRs < 5 x BlankEquivConc	TRG	8/5/2006	10:00	8/7/2006	0:49	equipment blank contamination (0.00271 J mg/L)	329692
EB-508	2.0608E+10	EQBK	SW8270C		W	Acetophenone	U to RRs < 5 x BlankEquivConc	TRG	8/5/2006	10:00	8/11/2006	10:16	equipment blank contamination (0.00263 J mg/L)	330309
FB-506	2.0608E+10	FLDBK	SW8270C		W	Acetophenone	U to RRs < 5 x BlankEquivConc	TRG	8/5/2006	10:00	8/11/2006	10:31	field blank contamination (0.000426 J mg/L)	330309
FB-508	2.0608E+10	FLDBK	SW8270C		W	Acetophenone	U to RRs < 5 x BlankEquivConc	TRG	8/5/2006	10:00	8/7/2006	1:03	field blank contamination (0.00248 J mg/L)	329692
x	D1062	CCV1	SW8270C			Aniline	J- / UJ to RRs/NDs	SVOC			8/6/06	13:38	calibration drift (%D= -26)	
EB-506	2.0608E+10	EQBK	SW8270C		W	Aniline	U to RRs < 5 x BlankEquivConc	TRG	8/5/2006	10:00	8/7/2006	0:49	equipment blank contamination (0.000711 J mg/L)	329692
LCSD for HBN 329575 [EXTO/1440]	397809	LCSD	SW8270C		W	Aniline	J- / UJ to NDs/RRs	TRG	8/5/2006	10:00	8/6/2006	22:22	low LCS/LCSD ave recovery (49%)	329692
ND2MW01-001 MSD	2.0608E+10	MSD	SW8270C		W	Aniline	J- / UJ to NDs/RRs	TRG	8/5/2006	10:00	8/6/2006	23:34	low MS/MSD ave recovery (34%)	329692
x	D1062	CCV1	SW8270C			Atrazine	J- / UJ to RRs/NDs	SVOC			8/6/06	13:38	calibration drift (%D= -24)	
EB-506	2.0608E+10	EQBK	SW8270C		W	Benzaldehyde	U to RRs < 5 x BlankEquivConc	TRG	8/5/2006	10:00	8/7/2006	0:49	equipment blank contamination (0.00366 J mg/L)	329692
EB-508	2.0608E+10	EQBK	SW8270C		W	Benzaldehyde	U to RRs < 5 x BlankEquivConc	TRG	8/5/2006	10:00	8/11/2006	10:16	equipment blank contamination (0.00103 J mg/L)	330309
FB-506	2.0608E+10	FLDBK	SW8270C		W	Benzaldehyde	U to RRs < 5 x BlankEquivConc	TRG	8/5/2006	10:00	8/11/2006	10:31	field blank contamination (0.000766 J mg/L)	330309
FB-508	2.0608E+10	FLDBK	SW8270C		W	Benzaldehyde	U to RRs < 5 x BlankEquivConc	TRG	8/5/2006	10:00	8/7/2006	1:03	field blank contamination (0.00371 J mg/L)	329692
x	C0656	ICAL1	SW8270C			Benzaldehyde	J / UJ to RRs/NDs	SVOC			8/10/06	9:59	poor calibration fit (%RSD=48)	
x	D1062	CCV1	SW8270C			Benzaldehyde	J- / UJ to RRs/NDs	SVOC			8/6/06	13:38	calibration drift (%D= -27)	
ND2MW01-001 MSD	2.0608E+10	MSD	SW8270C		W	Benzidine	J- / R to NDs/RRs	TRG	8/5/2006	10:00	8/6/2006	23:34	extremely low MS/MSD ave recovery (0%)	329692
LCSD for HBN 329575 [EXTO/1440]	397809	LCSD	SW8270C		W	Benzidine	J to RRs (none)	TRG	8/5/2006	10:00	8/6/2006	22:22	poor LCS/LCSD precision (91 RPD)	329692
x	D0930	ICAL1	SW8270C			Benzidine	J / UJ to RRs/NDs	SVOC			8/3/06	11:36	poor calibration fit (%RSD=50)	
x	C0656	ICAL1	SW8270C			Benzidine	J / UJ to RRs/NDs	SVOC			8/10/06	9:59	poor calibration fit (%RSD=27)	

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x	D1062	CCV1	SW8270C			Benzidine	J- / UJ to RRs/NDs	SVOC			8/6/06	13:38	calibration drift (%D= -34)	
x	C0695	CCV1	SW8270C			Benzidine	J- / UJ to RRs/NDs	SVOC			8/11/06	7:20	calibration drift (%D= -37)	
x	C0656	ICAL1	SW8270C			Benzo(a)pyrene	J / UJ to RRs/NDs	SVOC			8/10/06	9:59	poor calibration fit (%RSD=18)	
EB-508	2.0608E+10	EQBK	SW8270C		W	Benzoic acid	U to RRs < 5 x BlankEquivConc	TRG	8/5/2006	10:00	8/11/2006	10:16	equipment blank contamination (0.0021 J mg/L)	330309
LCSD for HBN 329575 [EXTO/1440]	397809	LCSD	SW8270C		W	Benzoic acid	J- / UJ to NDs/RRs	TRG	8/5/2006	10:00	8/6/2006	22:22	low LCS/LCSD ave recovery (39.5%)	329692
EB-506	2.0608E+10	EQBK	SW8270C		W	Benzyl alcohol	U to RRs < 5 x BlankEquivConc	TRG	8/5/2006	10:00	8/7/2006	0:49	equipment blank contamination (0.000474 J mg/L)	329692
EB-508	2.0608E+10	EQBK	SW8270C		W	Benzyl alcohol	U to RRs < 5 x BlankEquivConc	TRG	8/5/2006	10:00	8/11/2006	10:16	equipment blank contamination (0.000439 J mg/L)	330309
FB-506	2.0608E+10	FLDBK	SW8270C		W	Benzyl alcohol	U to RRs < 5 x BlankEquivConc	TRG	8/5/2006	10:00	8/11/2006	10:31	field blank contamination (0.000281 J mg/L)	330309
FB-508	2.0608E+10	FLDBK	SW8270C		W	Benzyl alcohol	U to RRs < 5 x BlankEquivConc	TRG	8/5/2006	10:00	8/7/2006	1:03	field blank contamination (0.000445 J mg/L)	329692
MB for HBN 329575 [EXTO/14407]	397807	LB	SW8270C		W	Bis(2-Ethylhexyl)phthalate	U to RRs < 10 x BlankEquivConc	TRG	8/5/2006	10:00	8/6/2006	21:53	laboratory blank contamination (0.012 mg/L)	329692
EB-506	2.0608E+10	EQBK	SW8270C		W	Bis(2-Ethylhexyl)phthalate	U to RRs < 10 x BlankEquivConc	TRG	8/5/2006	10:00	8/7/2006	0:49	equipment blank contamination (0.013 B mg/L)	329692
EB-508	2.0608E+10	EQBK	SW8270C		W	Bis(2-Ethylhexyl)phthalate	U to RRs < 10 x BlankEquivConc	TRG	8/5/2006	10:00	8/11/2006	10:16	equipment blank contamination (0.013 B mg/L)	330309
FB-506	2.0608E+10	FLDBK	SW8270C		W	Bis(2-Ethylhexyl)phthalate	U to RRs < 10 x BlankEquivConc	TRG	8/5/2006	10:00	8/11/2006	10:31	field blank contamination (0.00342 JB mg/L)	330309
FB-508	2.0608E+10	FLDBK	SW8270C		W	Bis(2-Ethylhexyl)phthalate	U to RRs < 10 x BlankEquivConc	TRG	8/5/2006	10:00	8/7/2006	1:03	field blank contamination (0.012 B mg/L)	329692
EB-506	2.0608E+10	EQBK	SW8270C		W	Butyl benzyl phthalate	U to RRs < 10 x BlankEquivConc (none)	TRG	8/5/2006	10:00	8/7/2006	0:49	equipment blank contamination (0.03 mg/L)	329692
EB-508	2.0608E+10	EQBK	SW8270C		W	Butyl benzyl phthalate	U to RRs < 10 x BlankEquivConc (none)	TRG	8/5/2006	10:00	8/11/2006	10:16	equipment blank contamination (0.036 mg/L)	330309
FB-506	2.0608E+10	FLDBK	SW8270C		W	Butyl benzyl phthalate	U to RRs < 10 x BlankEquivConc (none)	TRG	8/5/2006	10:00	8/11/2006	10:31	field blank contamination (0.013 mg/L)	330309
FB-508	2.0608E+10	FLDBK	SW8270C		W	Butyl benzyl phthalate	U to RRs < 10 x BlankEquivConc (none)	TRG	8/5/2006	10:00	8/7/2006	1:03	field blank contamination (0.029 mg/L)	329692
LCSD for HBN 329575 [EXTO/1440]	397809	LCSD	SW8270C		W	Caprolactam	J- / UJ to NDs/RRs	TRG	8/5/2006	10:00	8/6/2006	22:22	low LCS/LCSD ave recovery (31.5%)	329692

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ND2MW01-001 MSD	2.0608E+10	MSD	SW8270C		W	Caprolactam	J- / UJ to NDs/RRs	TRG	8/5/2006	10:00	8/6/2006	23:34	low MS/MSD ave recovery (39.5%)	329692	
EB-506	2.0608E+10	EQBK	SW8270C		W	Diethyl phthalate	U to RR<10 x BlankEquivConc (none)	TRG	8/5/2006	10:00	8/7/2006	0:49	equipment blank contamination (0.00109 J mg/L)	329692	
EB-508	2.0608E+10	EQBK	SW8270C		W	Diethyl phthalate	U to RR<10 x BlankEquivConc (none)	TRG	8/5/2006	10:00	8/11/2006	10:16	equipment blank contamination (0.00134 J mg/L)	330309	
FB-508	2.0608E+10	FLDBK	SW8270C		W	Diethyl phthalate	U to RR<10 x BlankEquivConc (none)	TRG	8/5/2006	10:00	8/7/2006	1:03	field blank contamination (0.00105 J mg/L)	329692	
EB-506	2.0608E+10	EQBK	SW8270C		W	Di-n-butyl phthalate	U to RR<10 x BlankEquivConc	TRG	8/5/2006	10:00	8/7/2006	0:49	equipment blank contamination (0.00308 J mg/L)	329692	
EB-508	2.0608E+10	EQBK	SW8270C		W	Di-n-butyl phthalate	U to RR<10 x BlankEquivConc	TRG	8/5/2006	10:00	8/11/2006	10:16	equipment blank contamination (0.00226 J mg/L)	330309	
FB-506	2.0608E+10	FLDBK	SW8270C		W	Di-n-butyl phthalate	U to RR<10 x BlankEquivConc	TRG	8/5/2006	10:00	8/11/2006	10:31	field blank contamination (0.00143 J mg/L)	330309	
FB-508	2.0608E+10	FLDBK	SW8270C		W	Di-n-butyl phthalate	U to RR<10 x BlankEquivConc	TRG	8/5/2006	10:00	8/7/2006	1:03	field blank contamination (0.00302 J mg/L)	329692	
x	D0930	ICAL1	SW8270C			Di-n-octylphthalate	J / UJ to RR/NDs	SVOC				8/3/06	11:36	poor calibration fit (%RSD=17)	
LCSD for HBN 329575 [EXTO/1440]	397809	LCSD	SW8270C		W	Hexachlorocyclopentadiene	J- / UJ to NDs/RRs	TRG	8/5/2006	10:00	8/6/2006	22:22	low LCS/LCSD ave recovery (38%)	329692	
ND2MW01-001 MSD	2.0608E+10	MSD	SW8270C		W	Hexachlorocyclopentadiene	J- / UJ to NDs/RRs	TRG	8/5/2006	10:00	8/6/2006	23:34	low MS/MSD ave recovery (41.5%)	329692	
LCSD for HBN 329575 [EXTO/1440]	397809	LCSD	SW8270C		W	Hexachloroethane	J- / UJ to NDs/RRs	TRG	8/5/2006	10:00	8/6/2006	22:22	low LCS/LCSD ave recovery (59%)	329692	
ND2MW01-001 MSD	2.0608E+10	MSD	SW8270C		W	Hexachloroethane	J- / UJ to NDs/RRs	TRG	8/5/2006	10:00	8/6/2006	23:34	low MS/MSD ave recovery (50.5%)	329692	
x	C0695	CCV1	SW8270C			Indeno(1,2,3-cd)pyrene	J+ to RR (none)	SVOC				8/11/06	7:20	calibration drift (%D= 25)	
x	D0930	ICAL1	SW8270C			n-Nitrosodimethylamine	J / UJ to RR/NDs	SVOC				8/3/06	11:36	poor calibration fit (%RSD=28)	
x	C0656	ICAL1	SW8270C			n-Nitrosodimethylamine	J / UJ to RR/NDs	SVOC				8/10/06	9:59	poor calibration fit (%RSD=21)	
x	D1062	CCV1	SW8270C			N-Nitrosodimethylamine	J+ to RR (none)	SVOC				8/6/06	13:38	calibration drift (%D= 32)	
x	C0695	CCV1	SW8270C			N-Nitrosodimethylamine	J- / UJ to RR/NDs	SVOC				8/11/06	7:20	calibration drift (%D= -39)	
LCSD for HBN 329575 [EXTO/1440]	397809	LCSD	SW8270C		W	n-Nitrosodimethylamine	J- / UJ to NDs/RRs	TRG	8/5/2006	10:00	8/6/2006	22:22	low LCS/LCSD ave recovery (49%)	329692	

## ATTACHMENT 1

Sample_ID	Lab_Sample_ID	Test_type_code	Analytical_Method	Total_or_dissolved	Matrix	Parameter	Valid_qualifier	Result_type_code	Prep_date	Prep_time	Analysis_Date	Analysis_Time	QC_comment	QC_Batch
ND2MW01-001 MSD	2.0608E+10	MSD	SW8270C		W	n-Nitrosodimethylamine	J- / UJ to NDs/RRs	TRG	8/5/2006	10:00	8/6/2006	23:34	low MS/MSD ave recovery (49.5%)	329692
x	D1062	CCV1	SW8270C			N-Nitroso-di-n-propylamine	J- / UJ to RRs/NDs	SVOC			8/6/06	13:38	calibration drift (%D= -21)	
x	C0656	ICAL1	SW8270C			Pentachlorophenol	J / UJ to RRs/NDs	SVOC			8/10/06	9:59	poor calibration fit (%RSD=20)	
LCSD for HBN 329575 [EXTO/1440]	397809	LCSD	SW8270C		W	Phenol	J- / UJ to NDs/RRs	TRG	8/5/2006	10:00	8/6/2006	22:22	low LCS/LCSD ave recovery (32.5%)	329692
ND2MW01-001 MSD	2.0608E+10	MSD	SW8270C		W	Phenol	J- / UJ to NDs/RRs	TRG	8/5/2006	10:00	8/6/2006	23:34	low MS/MSD ave recovery (52%)	329692
x	D0930	ICAL1	SW8270C			Pyridine	J / UJ to RRs/NDs	SVOC			8/3/06	11:36	poor calibration fit (%RSD=24)	
x	C0656	ICAL1	SW8270C			Pyridine	J / UJ to RRs/NDs	SVOC			8/10/06	9:59	poor calibration fit (%RSD=28)	
x	C0695	CCV1	SW8270C			Pyridine	J+ to RRs (none)	SVOC			8/11/06	7:20	calibration drift (%D= 34)	
ND2MW01-001 MSD	2.0608E+10	MSD	SW8270C		W	Pyridine	J to RRs (none)	TRG	8/5/2006	10:00	8/6/2006	23:34	poor MS/MSD precision (125 RPD)	329692
NE1MW04-004	2.0608E+10	SMP	SW8270C		W	2-Fluorophenol	J- / UJ to NDs/RRs for Acid analytes	SUR	8/5/2006	10:00	8/6/2006	22:36	low Acid SU recovery (51%)	329692
NE1MW04-004	2.0608E+10	SMP	SW8270C		W	Phenol-d5	J- / UJ to NDs/RRs for Acid analytes	SUR	8/5/2006	10:00	8/6/2006	22:36	low Acid SU recovery (35%)	329692
NF1PZ05-005	2.0608E+10	SMP	SW8270C		W	Terphenyl-d14	none (surrogate diluted out)	SUR	8/5/2006	10:00	8/11/2006	15:57	extremely low SU recovery (0%)	330309
NF1PZ05-005	2.0608E+10	SMP	SW8270C		W	2,4,6-Tribromophenol	none (surrogate diluted out)	SUR	8/5/2006	10:00	8/11/2006	15:57	extremely low SU recovery (0%)	330309
NF1PZ05-005	2.0608E+10	SMP	SW8270C		W	2-Fluorobiphenyl	none (surrogate diluted out)	SUR	8/5/2006	10:00	8/11/2006	15:57	extremely low SU recovery (0%)	330309
NF1PZ05-005	2.0608E+10	SMP	SW8270C		W	2-Fluorophenol	none (surrogate diluted out)	SUR	8/5/2006	10:00	8/11/2006	15:57	extremely low SU recovery (0%)	330309
NF1PZ05-005	2.0608E+10	SMP	SW8270C		W	Phenol-d5	none (surrogate diluted out)	SUR	8/5/2006	10:00	8/11/2006	15:57	extremely low SU recovery (0%)	330309
NF1PZ05-005	2.0608E+10	SMP	SW8270C		W	Nitrobenzene-d5	none (surrogate diluted out)	SUR	8/5/2006	10:00	8/11/2006	15:57	extremely low SU recovery (0%)	330309
ND2MW01-001	2.0608E+10	SMP	SW8270C		W	2-Fluorophenol	J- / UJ to NDs/RRs for Acid analytes	SUR	8/5/2006	10:00	8/6/2006	23:05	low Acid SU recovery (52%)	329692
ND2MW01-001	2.0608E+10	SMP	SW8270C		W	Phenol-d5	J- / UJ to NDs/RRs for Acid analytes	SUR	8/5/2006	10:00	8/6/2006	23:05	low Acid SU recovery (44%)	329692

ATTACHMENT 1

Sample_ID	Lab_Sample_ID	Test_type_code	Analytical_Method	Total_or_dissolved	Matrix	Parameter	Valid_qualifier	Result_type_code	Prep_date	Prep_time	Analysis_Date	Analysis_Time	QC_comment	QC_Batch
NF2MW06-006	2.0608E+10	SMP	SW8270C		W	2-Fluorophenol	J- / UJ to NDs/RRs for Acid analytes	SUR	8/5/2006	10:00	8/6/2006	23:49	low Acid SU recovery (43%)	329692
NF2MW06-006	2.0608E+10	SMP	SW8270C		W	Phenol-d5	J- / UJ to NDs/RRs for Acid analytes	SUR	8/5/2006	10:00	8/6/2006	23:49	low Acid SU recovery (26%)	329692
ND3MW02-002	2.0608E+10	SMP	SW8270C		W	2-Fluorophenol	J- / UJ to NDs/RRs for Acid analytes	SUR	8/5/2006	10:00	8/7/2006	0:03	low Acid SU recovery (40%)	329692
ND3MW02-002	2.0608E+10	SMP	SW8270C		W	Phenol-d5	J- / UJ to NDs/RRs for Acid analytes	SUR	8/5/2006	10:00	8/7/2006	0:03	low Acid SU recovery (30%)	329692
MW-500	2.0608E+10	SMP	SW8270C		W	2-Fluorophenol	J- / UJ to NDs/RRs for Acid analytes	SUR	8/5/2006	10:00	8/7/2006	0:18	low Acid SU recovery (43%)	329692
MW-500	2.0608E+10	SMP	SW8270C		W	Phenol-d5	J- / UJ to NDs/RRs for Acid analytes	SUR	8/5/2006	10:00	8/7/2006	0:18	low Acid SU recovery (31%)	329692
SL8MW17-017	2.0608E+10	SMP	SW8270C		W	2-Fluorophenol	J- / UJ to NDs/RRs for Acid analytes	SUR	8/5/2006	10:00	8/7/2006	0:33	low Acid SU recovery (44%)	329692
SL8MW17-017	2.0608E+10	SMP	SW8270C		W	Phenol-d5	J- / UJ to NDs/RRs for Acid analytes	SUR	8/5/2006	10:00	8/7/2006	0:33	low Acid SU recovery (30%)	329692
SA4PZ07-007	2.0608E+10	SMP	SW8270C		W	2-Fluorophenol	J- / UJ to NDs/RRs for Acid analytes	SUR	8/5/2006	10:00	8/7/2006	1:17	low Acid SU recovery (47%)	329692
SA4PZ07-007	2.0608E+10	SMP	SW8270C		W	Phenol-d5	J- / UJ to NDs/RRs for Acid analytes	SUR	8/5/2006	10:00	8/7/2006	1:17	low Acid SU recovery (36%)	329692
NB4PZ01-001	2.0608E+10	SMP	SW8270C		W	2-Fluorophenol	J- / UJ to NDs/RRs for Acid analytes	SUR	8/5/2006	10:00	8/11/2006	10:01	low Acid SU recovery (49%)	330309
NB4PZ01-001	2.0608E+10	SMP	SW8270C		W	Phenol-d5	J- / UJ to NDs/RRs for Acid analytes	SUR	8/5/2006	10:00	8/11/2006	10:01	low Acid SU recovery (45%)	330309

<b>DATA VALIDATION CHECKLIST</b> (Level III)				
ITEM	Yes	No	NA	Comment Number
Client Name: Pastor, Behling, & Wheeler				Project Number: 1352
Property Location: Gulfco Superfund Site				Project Manager: Eric Pastor
Laboratory: GCAL – Baton Rouge, LA				Laboratory Job No.: 206080431
Reviewer: Taryn Scholz/ Don Flory (QAA, L.L.C.)				Date Checked: 10/9/06
<b>Chain of Custody (COC) and Sample Receipt at Lab</b>				
1. Signed COCs included and seals used?	x			
2. Date and time of sample collection included?	x			
3. All samples listed on the COC analyzed for in accordance with the RI/FS Work Plan?	x			
4. Field QC sample frequency met project requirements?	x			
5. Sample receipt temperature 2-6°C?	x			
6. Samples preserved appropriately?	x			
7. Samples received within 2 days of collection?	x			
8. No problems noted?	x			
<b>Laboratory Report and Data Package</b>				
9. Signed Case Narrative included?	x			
10. No analytical discrepancies noted in case narrative?		x		10.
11. Elevated reporting limits justified?	x			11.
12. MDLs reasonable per DCS?	x			
13. Calibration data acceptable?		x		see attached
14. ICV and CCV recoveries within project control limits?		x		see attached
15. ICB and CCB results <RL (MQL)?	x			
16. Internal standard areas within project control limits?	x			
<b>Laboratory EDD</b>				
17. Field sample IDs included?	x			
18. Laboratory sample IDs included?	x			
19. Date of analysis included?	x			
20. Date of sample preparation included?	x			
21. Samples prepared within holding time?	x			
22. Samples analyzed within holding time?	x			
23. Detection limit and quantitation limit included?	x			
24. Project target limits achieved?	x			
25. No elevated reporting limits?		x		25.
26. Method references included?	x			
27. Sample matrix included?	x			
28. Sample result units reported correctly?	x			28.
29. Soil/ sediment results corrected for dry-weight?	x			
30. Method blank results <RL (MDL)?		x		see attached
31. Equipment and Trip blank results <RL (MDL)?		x		see attached
32. All COIs included in LCS?	x			32.
33. LCS recovery within project control limits?		x		see attached
34. MS/MSD recoveries within project control limits?		x		34. see attached
35. LCS/LCSD RPDs within project control limits?		x		see attached
36. MS/MSD RPDs within project control limits?		x		see attached
37. Laboratory duplicate RPDs/Diffs within project control limits?			x	
38. Field duplicate RPDs/Diffs within project control limits?	x			
39. Surrogate recoveries within project control limits?		x		see attached
40. Completeness percentage within project limits?	x			

<p>Definitions:</p> <p><b>CCB</b> – Continuing Calibration Blank; <b>CCV</b> – Continuing Calibration Verification; <b>COI</b> – Compounds of Interest; <b>DCS</b> – Detectability Check Sample; <b>ICB</b> – Initial Calibration Blank; <b>ICV</b> – Initial Calibration Verification; <b>LCS</b> – Laboratory Control Sample; <b>LCSD</b> – Laboratory Control Sample Duplicate; <b>MDL</b> – Method Detection Limit; <b>MS/MSD</b> – Matrix Spike/Matrix Spike Duplicate; <b>RL</b> – Reporting Limit; <b>RPD</b> – Relative Percent Difference</p>				
<b>COMMENTS</b>				
Level IV Check - GC/MS RRF for instrument calibration also included in Level III checks after deficiencies noted in first samples – see attached for deficiencies noted				
10. Issues noted for all parameters. All are based on laboratory limits, which do not affect flagging for this site, except for following:				
VOC – no MS/MSD for batch 329645 (only field blanks in this batch);				
PEST - RT window originally set too wide, revisions submitted for results for 1 sample (Since the original EDD (submitted 9/8/06) was not yet validated, it was deleted and the revised EDD (submitted 9/18/06) has no suffix); Surrogates diluted out for all samples; Matrix spikes diluted out				
11. Six VOC samples diluted due to interference with IS; Six Pest/Aroclor samples required dilution to eliminate background interference				
25. All VOC samples and MS/MSD diluted 5x (10x for SE05-005) for low level and run as med level (50x) for n-butyl alcohol and 2-chloroethylvinyl ether; All Pest/Aroclor samples diluted 50x.				
28. For organics, the SDLs and SQLs are in mg/L (w) and mg/kg (s) as requested for samples logged in after 7/31/06; however, the user should note that the MDLs and MQLs are in ug/L (w) and ug/kg (s) and this is not accounted for in the Prep Factor or Dilution Factor.				
32. All analytes routinely spiked by lab are included as per QAPP. This is every TA except n-Butyl alcohol, Toxaphene, and the 5 middle Aroclors.				
34. All Pesticide and Aroclor samples and the MS/MSD were diluted 50x due to interference from a large non-target peak. The spike amounts were thus diluted below the MQL and so recoveries are not applicable for assessing accuracy in this complex matrix. However, the reviewer examined the raw data and found that all target analytes were detected by the GC data system (some below the MDL) in the MS/MSD and peaks are visible on the chromatograms. Thus, though the interference likely affects quantitation, it appears that qualitative identification is possible. The reviewer considers the reporting limits for the samples (all 50x the nominal for a minimal MDL of 0.13 mg/kg) usable with qualification as estimated (UJ) and applied flags as such. Note also that one sample (FWPSE01-001-(0-0.5)) and its field duplicate (SE-501-(0-0.5)) were analyzed by GEL for PCB-Congeners. A cleanup procedure was used for the extracts and no further dilution was required. All 31 Congeners are non-detect at a maximum 0.001 mg/kg SDL.				
ADDITIONAL NOTE - VOCs were analyzed both as low level soils (unheated purge of 0.5-5g soil in 5 mls water) and as high level soils (heated purge of 100 ul of methanol extract from 5g soil in 5 mls water). All but two of the target analytes (2-Chloroethyl vinyl ether and 2- Butyl alcohol) are reported from the low level analysis. The high level analysis was run because the laboratory was unable to adequately calibrate the heated purge instruments for these two analytes, not because of high levels of target analytes. The raw data indicates that a few analytes may have been detected in the high level (methanol extract) analysis that are reported as non-detects in the low level analysis. The validator tabulated these amounts for all the VOC samples. The analyte most affected is Methyl acetate, which appears in all of the high level analyses and is likely a laboratory artifact, along with one case each of Acetone, Methylene chloride, Acrylonitrile, and 2-Butanone. In every case, the amount is considered insignificant since the low level analysis (which is the applicable and requested method except in cases of high concentrations of target analytes) shows not detected and the amounts in the high level are well below the Preliminary Screening Values. Thus, the validator did not take any additional action.				

**SET SUMMARY**  
**Laboratory Job No.: 206080431**

6	Number of Field Samples including Field Duplicates (1)
1	Number of Field MS/MSD Pairs
1	Number of Equipment Rinsate Blanks
0	Number of Field Blanks
1	Number of VOC Trip Blanks
6	Number of Parameters (VOC, SVOC, Pesticides, Aroclors, Metals, TOC)
199	Number of Target Analytes per Sample
1194	Total Measurements for Field Samples
837	Number of measurements with no validation qualifier (i.e., "none" in EDD)
168	Number of measurements with UJ flag (for all Pesticide and Aroclor results based on MS/MSD results, see comment no. 34)
130	Number of measurements with UJ flag (for various analytes due to low laboratory spike, matrix spike, and/or surrogate spike recovery; poor calibration fit and/or negative drift)
12	Number of measurements with UJ flag and an elevated SDL (for Acrolein and 2-Butyl alcohol due to poor instrument response, i.e., low RRF)
0	Number of measurements with J- flag
11	Number of measurements with J flag (due solely to result being between the SDL and SQL)
4	Number of measurements with J flag (due to result being between the SDL and SQL plus negative or positive calibration drift and/or low spike recovery)
0	Number of measurements with J+ flag
26	Number of measurements with U flag (due to blank contamination; analytes affected include Acetone, Biphenyl, Bis(2-Ethylhexyl)phthalate, Boron, and Methylene chloride)
0	Number of measurements with NS flag
6	Number of measurements with R flag (for six Antimony results due to extremely low matrix spike recovery of 25%)
100%	Completeness-to-date on a sample level (percentage of all sediment samples, including ICWW, on-site, and pond sediments, with usable data for a specific analyte, project goal 90%)
89%	Completeness-to-date on an analyte level (percentage of all sediment samples, including ICWW, on-site, and pond sediments, with usable data for a specific analyte, project goal 80%) – Antimony
88%	Completeness-to-date on an analyte level (percentage of all sediment samples, including ICWW, on-site, and pond sediments, with usable data for a specific analyte, project goal 80%) – 2-Chloroethylvinyl ether
84%	Completeness-to-date on an analyte level (percentage of all sediment samples, including ICWW, on-site, and pond sediments, with usable data for a specific analyte, project goal 80%) – Benzidine
100%	Completeness-to-date on an analyte level (percentage of all sediment samples, including ICWW, on-site, and pond sediments, with usable data for a specific analyte, project goal 80%) – All other target analytes

Usability: All data suitable as qualified for the intended use except for the six results (all non-detects) for Antimony. Data for Acrolein and n-Butyl alcohol are usable with an elevated reporting limit for the non-detects (as given in the Electronic Data Deliverable). Measurements qualified with a U-flag should be considered not present at the concentration reported.

## QUALIFIED DATA TABLE

Field Sample Identification	Analyte	Data Qualifier	Reason for Qualification
FWPSE01-001-(0-0.5)	Antimony	R	extremely low MS/MSD ave recovery (25%)
FWPSE01-001-(0-0.5)	Cadmium	J	result is between SDL and SQL
FWPSE01-001-(0-0.5)	4,4'-DDD	UJ	based on MS/MSD results, see narrative
FWPSE01-001-(0-0.5)	4,4'-DDE	UJ	based on MS/MSD results, see narrative
FWPSE01-001-(0-0.5)	4,4'-DDT	UJ	column 1 calibration drift (%D= -16); based on MS/MSD results, see narrative
FWPSE01-001-(0-0.5)	Aldrin	UJ	based on MS/MSD results, see narrative
FWPSE01-001-(0-0.5)	alpha-BHC	UJ	based on MS/MSD results, see narrative
FWPSE01-001-(0-0.5)	alpha-Chlordane	UJ	based on MS/MSD results, see narrative
FWPSE01-001-(0-0.5)	beta-BHC	UJ	based on MS/MSD results, see narrative
FWPSE01-001-(0-0.5)	delta-BHC	UJ	based on MS/MSD results, see narrative
FWPSE01-001-(0-0.5)	Dieldrin	UJ	based on MS/MSD results, see narrative
FWPSE01-001-(0-0.5)	Endosulfan I	UJ	based on MS/MSD results, see narrative
FWPSE01-001-(0-0.5)	Endosulfan II	UJ	based on MS/MSD results, see narrative
FWPSE01-001-(0-0.5)	Endosulfan sulfate	UJ	based on MS/MSD results, see narrative
FWPSE01-001-(0-0.5)	Endrin	UJ	based on MS/MSD results, see narrative
FWPSE01-001-(0-0.5)	Endrin aldehyde	UJ	based on MS/MSD results, see narrative
FWPSE01-001-(0-0.5)	Endrin ketone	UJ	based on MS/MSD results, see narrative
FWPSE01-001-(0-0.5)	gamma-BHC (Lindane)	UJ	based on MS/MSD results, see narrative
FWPSE01-001-(0-0.5)	gamma-Chlordane	UJ	based on MS/MSD results, see narrative
FWPSE01-001-(0-0.5)	Heptachlor	UJ	based on MS/MSD results, see narrative
FWPSE01-001-(0-0.5)	Heptachlor epoxide	UJ	based on MS/MSD results, see narrative
FWPSE01-001-(0-0.5)	Methoxychlor	UJ	based on MS/MSD results, see narrative
FWPSE01-001-(0-0.5)	Toxaphene	UJ	based on MS/MSD results, see narrative
FWPSE01-001-(0-0.5)	Aroclor-1016	UJ	based on MS/MSD results, see narrative
FWPSE01-001-(0-0.5)	Aroclor-1221	UJ	based on MS/MSD results, see narrative
FWPSE01-001-(0-0.5)	Aroclor-1232	UJ	based on MS/MSD results, see narrative
FWPSE01-001-(0-0.5)	Aroclor-1242	UJ	based on MS/MSD results, see narrative
FWPSE01-001-(0-0.5)	Aroclor-1248	UJ	based on MS/MSD results, see narrative
FWPSE01-001-(0-0.5)	Aroclor-1254	UJ	based on MS/MSD results, see narrative
FWPSE01-001-(0-0.5)	Aroclor-1260	UJ	based on MS/MSD results, see narrative; calibration drift (%D= -19)
FWPSE01-001-(0-0.5)	Acetone	U	equipment blank contamination (0.00427 JB mg/L), laboratory blank contamination (0.0016 J mg/kg), result is between SDL and SQL
FWPSE01-001-(0-0.5)	Acrolein	UJ	low instrument response (low RRF), elevate SDL for NDs 11x (Sed); low MS/MSD ave recovery (4%)
FWPSE01-001-(0-0.5)	Methylene chloride	U	laboratory blank contamination (0.00278 J mg/kg), result is between SDL and SQL
FWPSE01-001-(0-0.5)	n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (SW/GW) or 50x (Sed)
FWPSE01-001-(0-0.5)	Vinyl acetate	UJ	low MS/MSD ave recovery (56.5%)
FWPSE01-001-(0-0.5)	Vinyl chloride	UJ	poor calibration fit (%RSD=18)
FWPSE01-001-(0-0.5)	2,4-Dinitrophenol	UJ	low LCS/LCSD ave recovery (20.5%), low MS/MSD ave recovery (32.5%)
FWPSE01-001-(0-0.5)	2-Chlorophenol	UJ	low LCS/LCSD ave recovery (57.5%), low MS/MSD ave recovery (58.5%)
FWPSE01-001-(0-0.5)	3-Nitroaniline	UJ	low MS/MSD ave recovery (36.5%)
FWPSE01-001-(0-0.5)	4,6-Dinitro-2-methylphenol	UJ	low LCS/LCSD ave recovery (27%), low MS/MSD ave recovery (45%)
FWPSE01-001-(0-0.5)	4-Chloroaniline	UJ	low LCS/LCSD ave recovery (58%), low MS/MSD ave recovery (31%)
FWPSE01-001-(0-0.5)	4-Nitroaniline	UJ	low MS/MSD ave recovery (47%)
FWPSE01-001-(0-0.5)	Aniline	UJ	low LCS/LCSD ave recovery (54%), low MS/MSD ave recovery (30%),

## QUALIFIED DATA TABLE

Field Sample Identification	Analyte	Data Qualifier	Reason for Qualification
FWPSE01-001-(0-0.5)	Benzaldehyde	UJ	calibration drift (%D= -46), low LCS/LCSD ave recovery (20.5%), low MS/MSD ave recovery (23.5%)
FWPSE01-001-(0-0.5)	Benzidine	UJ	poor calibration fit (%RSD=50), calibration drift (%D= -59), low LCS/LCSD ave recovery (53%), low MS/MSD ave recovery (4.5%),
FWPSE01-001-(0-0.5)	Benzo(b)fluoranthene	J	result is between SDL and SQL
FWPSE01-001-(0-0.5)	Benzoic acid	UJ	low LCS/LCSD ave recovery (44.5%), low MS/MSD ave recovery (20.5%)
FWPSE01-001-(0-0.5)	Biphenyl	U	laboratory blank contamination (0.171 J mg/kg), result is between SDL and SQL
FWPSE01-001-(0-0.5)	Bis(2-Chloroethyl)ether	UJ	low LCS/LCSD ave recovery (58.5%), low MS/MSD ave recovery (56.5%)
FWPSE01-001-(0-0.5)	Bis(2-Ethylhexyl)phthalate	U	equipment blank contamination (0.00259 J mg/L), laboratory blank contamination (0.024 J mg/kg), result is between SDL and SQL
FWPSE01-001-(0-0.5)	Di-n-octyl phthalate	UJ	poor calibration fit (%RSD=17)
FWPSE01-001-(0-0.5)	Hexachlorocyclopentadiene	UJ	low LCS/LCSD ave recovery (36.5%), low MS/MSD ave recovery (18.5%)
FWPSE01-001-(0-0.5)	Hexachloroethane	UJ	low LCS/LCSD ave recovery (59.5%)
FWPSE01-001-(0-0.5)	n-Nitrosodimethylamine	UJ	poor calibration fit (%RSD=28), low LCS/LCSD ave recovery (53%), low MS/MSD ave recovery (20.5%),
FWPSE01-001-(0-0.5)	o-Cresol	UJ	low LCS/LCSD ave recovery (57%), low MS/MSD ave recovery (58%)
FWPSE01-001-(0-0.5)	Phenol	UJ	low LCS/LCSD ave recovery (58%), low MS/MSD ave recovery (57%)
FWPSE01-001-(0-0.5)	Pyridine	UJ	poor calibration fit (%RSD=24)
FWPSE02-002-(0-0.5)	Antimony	R	extremely low MS/MSD ave recovery (25%)
FWPSE02-002-(0-0.5)	Cadmium	J	result is between SDL and SQL
FWPSE02-002-(0-0.5)	4,4'-DDD	UJ	based on MS/MSD results, see narrative
FWPSE02-002-(0-0.5)	4,4'-DDE	UJ	based on MS/MSD results, see narrative
FWPSE02-002-(0-0.5)	4,4'-DDT	UJ	column 1 calibration drift (%D= -16); based on MS/MSD results, see narrative
FWPSE02-002-(0-0.5)	Aldrin	UJ	based on MS/MSD results, see narrative
FWPSE02-002-(0-0.5)	alpha-BHC	UJ	based on MS/MSD results, see narrative
FWPSE02-002-(0-0.5)	alpha-Chlordane	UJ	based on MS/MSD results, see narrative
FWPSE02-002-(0-0.5)	beta-BHC	UJ	based on MS/MSD results, see narrative
FWPSE02-002-(0-0.5)	delta-BHC	UJ	based on MS/MSD results, see narrative
FWPSE02-002-(0-0.5)	Dieldrin	UJ	based on MS/MSD results, see narrative
FWPSE02-002-(0-0.5)	Endosulfan I	UJ	based on MS/MSD results, see narrative
FWPSE02-002-(0-0.5)	Endosulfan II	UJ	based on MS/MSD results, see narrative
FWPSE02-002-(0-0.5)	Endosulfan sulfate	UJ	based on MS/MSD results, see narrative
FWPSE02-002-(0-0.5)	Endrin	UJ	based on MS/MSD results, see narrative
FWPSE02-002-(0-0.5)	Endrin aldehyde	UJ	based on MS/MSD results, see narrative
FWPSE02-002-(0-0.5)	Endrin ketone	UJ	based on MS/MSD results, see narrative
FWPSE02-002-(0-0.5)	gamma-BHC (Lindane)	UJ	based on MS/MSD results, see narrative
FWPSE02-002-(0-0.5)	gamma-Chlordane	UJ	based on MS/MSD results, see narrative
FWPSE02-002-(0-0.5)	Heptachlor	UJ	based on MS/MSD results, see narrative
FWPSE02-002-(0-0.5)	Heptachlor epoxide	UJ	based on MS/MSD results, see narrative
FWPSE02-002-(0-0.5)	Methoxychlor	UJ	based on MS/MSD results, see narrative
FWPSE02-002-(0-0.5)	Toxaphene	UJ	based on MS/MSD results, see narrative
FWPSE02-002-(0-0.5)	Aroclor-1016	UJ	based on MS/MSD results, see narrative
FWPSE02-002-(0-0.5)	Aroclor-1221	UJ	based on MS/MSD results, see narrative
FWPSE02-002-(0-0.5)	Aroclor-1232	UJ	based on MS/MSD results, see narrative
FWPSE02-002-(0-0.5)	Aroclor-1242	UJ	based on MS/MSD results, see narrative
FWPSE02-002-(0-0.5)	Aroclor-1248	UJ	based on MS/MSD results, see narrative

## QUALIFIED DATA TABLE

Field Sample Identification	Analyte	Data Qualifier	Reason for Qualification
FWPSE02-002-(0-0.5)	Aroclor-1254	UJ	based on MS/MSD results, see narrative
FWPSE02-002-(0-0.5)	Aroclor-1260	UJ	based on MS/MSD results, see narrative; calibration drift (%D= -19)
FWPSE02-002-(0-0.5)	Acetone	U	equipment blank contamination (0.00427 JB mg/L), laboratory blank contamination (0.0016 J mg/kg), result is between SDL and SQL
FWPSE02-002-(0-0.5)	Acrolein	UJ	low instrument response (low RRF), elevate SDL for NDs 11x (Sed); low MS/MSD ave recovery (4%)
FWPSE02-002-(0-0.5)	Methylene chloride	U	laboratory blank contamination (0.00278 J mg/kg), result is between SDL and SQL
FWPSE02-002-(0-0.5)	n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (SW/GW) or 50x (Sed)
FWPSE02-002-(0-0.5)	Vinyl acetate	UJ	low MS/MSD ave recovery (56.5%)
FWPSE02-002-(0-0.5)	Vinyl chloride	UJ	poor calibration fit (%RSD=18)
FWPSE02-002-(0-0.5)	2,4-Dinitrophenol	UJ	low LCS/LCSD ave recovery (20.5%), low MS/MSD ave recovery (32.5%)
FWPSE02-002-(0-0.5)	2-Chlorophenol	UJ	low LCS/LCSD ave recovery (57.5%), low MS/MSD ave recovery (58.5%)
FWPSE02-002-(0-0.5)	3-Nitroaniline	UJ	low MS/MSD ave recovery (36.5%)
FWPSE02-002-(0-0.5)	4,6-Dinitro-2-methylphenol	UJ	low LCS/LCSD ave recovery (27%), low MS/MSD ave recovery (45%)
FWPSE02-002-(0-0.5)	4-Chloroaniline	UJ	low LCS/LCSD ave recovery (58%), low MS/MSD ave recovery (31%)
FWPSE02-002-(0-0.5)	4-Nitroaniline	UJ	low MS/MSD ave recovery (47%)
FWPSE02-002-(0-0.5)	Aniline	UJ	calibration drift (%D= -26), low LCS/LCSD ave recovery (54%), low MS/MSD ave recovery (30%),
FWPSE02-002-(0-0.5)	Atrazine (Aatrex)	UJ	calibration drift (%D= -24)
FWPSE02-002-(0-0.5)	Benzaldehyde	UJ	calibration drift (%D= -27), low LCS/LCSD ave recovery (20.5%), low MS/MSD ave recovery (23.5%)
FWPSE02-002-(0-0.5)	Benzidine	UJ	poor calibration fit (%RSD=50), calibration drift (%D= -34), low LCS/LCSD ave recovery (53%), low MS/MSD ave recovery (4.5%),
FWPSE02-002-(0-0.5)	Benzo(b)fluoranthene	J	result is between SDL and SQL
FWPSE02-002-(0-0.5)	Benzoic acid	UJ	low LCS/LCSD ave recovery (44.5%), low MS/MSD ave recovery (20.5%)
FWPSE02-002-(0-0.5)	Biphenyl	U	laboratory blank contamination (0.171 J mg/kg), result is between SDL and SQL
FWPSE02-002-(0-0.5)	Bis(2-Chloroethyl)ether	UJ	low LCS/LCSD ave recovery (58.5%), low MS/MSD ave recovery (56.5%)
FWPSE02-002-(0-0.5)	Bis(2-Ethylhexyl)phthalate	U	equipment blank contamination (0.00259 J mg/L), laboratory blank contamination (0.024 J mg/kg), result is between SDL and SQL
FWPSE02-002-(0-0.5)	Di-n-octyl phthalate	UJ	poor calibration fit (%RSD=17)
FWPSE02-002-(0-0.5)	Hexachlorocyclopentadiene	UJ	low LCS/LCSD ave recovery (36.5%), low MS/MSD ave recovery (18.5%)
FWPSE02-002-(0-0.5)	Hexachloroethane	UJ	low LCS/LCSD ave recovery (59.5%)
FWPSE02-002-(0-0.5)	n-Nitrosodimethylamine	UJ	poor calibration fit (%RSD=28), low LCS/LCSD ave recovery (53%), low MS/MSD ave recovery (20.5%),
FWPSE02-002-(0-0.5)	n-Nitrosodi-n-propylamine	UJ	calibration drift (%D= -21)
FWPSE02-002-(0-0.5)	o-Cresol	uj	low LCS/LCSD ave recovery (57%), low MS/MSD ave recovery (58%)
FWPSE02-002-(0-0.5)	Phenol	UJ	low LCS/LCSD ave recovery (58%), low MS/MSD ave recovery (57%)
FWPSE02-002-(0-0.5)	Pyridine	UJ	poor calibration fit (%RSD=24)
FWPSE03-003-(0-0.5)	Antimony	R	extremely low MS/MSD ave recovery (25%)
FWPSE03-003-(0-0.5)	Boron	U	equipment blank contamination (0.03 B mg/L)
FWPSE03-003-(0-0.5)	Cadmium	J	result is between SDL and SQL
FWPSE03-003-(0-0.5)	4,4'-DDD	UJ	based on MS/MSD results, see narrative

## QUALIFIED DATA TABLE

Field Sample Identification	Analyte	Data Qualifier	Reason for Qualification
FWPSE03-003-(0-0.5)	4,4'-DDE	UJ	based on MS/MSD results, see narrative
FWPSE03-003-(0-0.5)	4,4'-DDT	UJ	column 1 calibration drift (%D= -16); based on MS/MSD results, see narrative
FWPSE03-003-(0-0.5)	Aldrin	UJ	based on MS/MSD results, see narrative
FWPSE03-003-(0-0.5)	alpha-BHC	UJ	based on MS/MSD results, see narrative
FWPSE03-003-(0-0.5)	alpha-Chlordane	UJ	based on MS/MSD results, see narrative
FWPSE03-003-(0-0.5)	beta-BHC	UJ	based on MS/MSD results, see narrative
FWPSE03-003-(0-0.5)	delta-BHC	UJ	based on MS/MSD results, see narrative
FWPSE03-003-(0-0.5)	Dieldrin	UJ	based on MS/MSD results, see narrative
FWPSE03-003-(0-0.5)	Endosulfan I	UJ	based on MS/MSD results, see narrative
FWPSE03-003-(0-0.5)	Endosulfan II	UJ	based on MS/MSD results, see narrative
FWPSE03-003-(0-0.5)	Endosulfan sulfate	UJ	based on MS/MSD results, see narrative
FWPSE03-003-(0-0.5)	Endrin	UJ	based on MS/MSD results, see narrative
FWPSE03-003-(0-0.5)	Endrin aldehyde	UJ	based on MS/MSD results, see narrative
FWPSE03-003-(0-0.5)	Endrin ketone	UJ	based on MS/MSD results, see narrative
FWPSE03-003-(0-0.5)	gamma-BHC (Lindane)	UJ	based on MS/MSD results, see narrative
FWPSE03-003-(0-0.5)	gamma-Chlordane	UJ	based on MS/MSD results, see narrative
FWPSE03-003-(0-0.5)	Heptachlor	UJ	based on MS/MSD results, see narrative
FWPSE03-003-(0-0.5)	Heptachlor epoxide	UJ	based on MS/MSD results, see narrative
FWPSE03-003-(0-0.5)	Methoxychlor	UJ	based on MS/MSD results, see narrative
FWPSE03-003-(0-0.5)	Toxaphene	UJ	based on MS/MSD results, see narrative
FWPSE03-003-(0-0.5)	Aroclor-1016	UJ	based on MS/MSD results, see narrative
FWPSE03-003-(0-0.5)	Aroclor-1221	UJ	based on MS/MSD results, see narrative
FWPSE03-003-(0-0.5)	Aroclor-1232	UJ	based on MS/MSD results, see narrative
FWPSE03-003-(0-0.5)	Aroclor-1242	UJ	based on MS/MSD results, see narrative
FWPSE03-003-(0-0.5)	Aroclor-1248	UJ	based on MS/MSD results, see narrative
FWPSE03-003-(0-0.5)	Aroclor-1254	UJ	based on MS/MSD results, see narrative
FWPSE03-003-(0-0.5)	Aroclor-1260	UJ	based on MS/MSD results, see narrative; calibration drift (%D= -19)
FWPSE03-003-(0-0.5)	Acetone	U	equipment blank contamination (0.00427 JB mg/L), laboratory blank contamination (0.0016 J mg/kg), result is between SDL and SQL
FWPSE03-003-(0-0.5)	Acrolein	UJ	low instrument response (low RRF), elevate SDL for NDs 11x (Sed); low MS/MSD ave recovery (4%)
FWPSE03-003-(0-0.5)	Methyl iodide	J	calibration drift (%D= +26), result is between SDL and SQL
FWPSE03-003-(0-0.5)	Methylene chloride	U	laboratory blank contamination (0.00278 J mg/kg), result is between SDL and SQL
FWPSE03-003-(0-0.5)	n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (SW/GW) or 50x (Sed)
FWPSE03-003-(0-0.5)	Vinyl acetate	UJ	low MS/MSD ave recovery (56.5%)
FWPSE03-003-(0-0.5)	Vinyl chloride	UJ	poor calibration fit (%RSD=18)
FWPSE03-003-(0-0.5)	2,4-Dinitrophenol	UJ	low LCS/LCSD ave recovery (20.5%), low MS/MSD ave recovery (32.5%)
FWPSE03-003-(0-0.5)	2-Chlorophenol	UJ	low LCS/LCSD ave recovery (57.5%), low MS/MSD ave recovery (58.5%)
FWPSE03-003-(0-0.5)	3-Nitroaniline	UJ	low MS/MSD ave recovery (36.5%)
FWPSE03-003-(0-0.5)	4,6-Dinitro-2-methylphenol	UJ	low LCS/LCSD ave recovery (27%), low MS/MSD ave recovery (45%)
FWPSE03-003-(0-0.5)	4-Chloroaniline	UJ	low LCS/LCSD ave recovery (58%), low MS/MSD ave recovery (31%)
FWPSE03-003-(0-0.5)	4-Nitroaniline	UJ	low MS/MSD ave recovery (47%)
FWPSE03-003-(0-0.5)	Aniline	UJ	low LCS/LCSD ave recovery (54%), low MS/MSD ave recovery (30%),
FWPSE03-003-(0-0.5)	Benzaldehyde	UJ	calibration drift (%D= -46), low LCS/LCSD ave recovery (20.5%), low MS/MSD ave recovery (23.5%)

## QUALIFIED DATA TABLE

Field Sample Identification	Analyte	Data Qualifier	Reason for Qualification
FWPSE03-003-(0-0.5)	Benzidine	UJ	poor calibration fit (%RSD=50), calibration drift (%D= -59), low LCS/LCSD ave recovery (53%), low MS/MSD ave recovery (4.5%),
FWPSE03-003-(0-0.5)	Benzoic acid	UJ	low LCS/LCSD ave recovery (44.5%), low MS/MSD ave recovery (20.5%)
FWPSE03-003-(0-0.5)	Biphenyl	U	laboratory blank contamination (0.171 J mg/kg), result is between SDL and SQL
FWPSE03-003-(0-0.5)	Bis(2-Chloroethyl)ether	UJ	low LCS/LCSD ave recovery (58.5%), low MS/MSD ave recovery (56.5%)
FWPSE03-003-(0-0.5)	Bis(2-Ethylhexyl)phthalate	U	equipment blank contamination (0.00259 J mg/L), laboratory blank contamination (0.024 J mg/kg), result is between SDL and SQL
FWPSE03-003-(0-0.5)	Di-n-octyl phthalate	UJ	poor calibration fit (%RSD=17)
FWPSE03-003-(0-0.5)	Hexachlorocyclopentadiene	UJ	low LCS/LCSD ave recovery (36.5%), low MS/MSD ave recovery (18.5%)
FWPSE03-003-(0-0.5)	Hexachloroethane	UJ	low LCS/LCSD ave recovery (59.5%)
FWPSE03-003-(0-0.5)	n-Nitrosodimethylamine	UJ	poor calibration fit (%RSD=28), low LCS/LCSD ave recovery (53%), low MS/MSD ave recovery (20.5%),
FWPSE03-003-(0-0.5)	o-Cresol	UJ	low LCS/LCSD ave recovery (57%), low MS/MSD ave recovery (58%)
FWPSE03-003-(0-0.5)	Phenol	UJ	low LCS/LCSD ave recovery (58%), low MS/MSD ave recovery (57%)
FWPSE03-003-(0-0.5)	Pyridine	UJ	poor calibration fit (%RSD=24)
FWPSE04-004-(0-0.5)	Antimony	R	extremely low MS/MSD ave recovery (25%)
FWPSE04-004-(0-0.5)	Boron	U	equipment blank contamination (0.03 B mg/L)
FWPSE04-004-(0-0.5)	Cadmium	J	result is between SDL and SQL
FWPSE04-004-(0-0.5)	4,4'-DDD	UJ	based on MS/MSD results, see narrative
FWPSE04-004-(0-0.5)	4,4'-DDE	UJ	based on MS/MSD results, see narrative
FWPSE04-004-(0-0.5)	4,4'-DDT	UJ	column 1 calibration drift (%D= -16); based on MS/MSD results, see narrative
FWPSE04-004-(0-0.5)	Aldrin	UJ	based on MS/MSD results, see narrative
FWPSE04-004-(0-0.5)	alpha-BHC	UJ	based on MS/MSD results, see narrative
FWPSE04-004-(0-0.5)	alpha-Chlordane	UJ	based on MS/MSD results, see narrative
FWPSE04-004-(0-0.5)	beta-BHC	UJ	based on MS/MSD results, see narrative
FWPSE04-004-(0-0.5)	delta-BHC	UJ	based on MS/MSD results, see narrative
FWPSE04-004-(0-0.5)	Dieldrin	UJ	based on MS/MSD results, see narrative
FWPSE04-004-(0-0.5)	Endosulfan I	UJ	based on MS/MSD results, see narrative
FWPSE04-004-(0-0.5)	Endosulfan II	UJ	based on MS/MSD results, see narrative
FWPSE04-004-(0-0.5)	Endosulfan sulfate	UJ	based on MS/MSD results, see narrative
FWPSE04-004-(0-0.5)	Endrin	UJ	based on MS/MSD results, see narrative
FWPSE04-004-(0-0.5)	Endrin aldehyde	UJ	based on MS/MSD results, see narrative
FWPSE04-004-(0-0.5)	Endrin ketone	UJ	based on MS/MSD results, see narrative
FWPSE04-004-(0-0.5)	gamma-BHC (Lindane)	UJ	based on MS/MSD results, see narrative
FWPSE04-004-(0-0.5)	gamma-Chlordane	UJ	based on MS/MSD results, see narrative
FWPSE04-004-(0-0.5)	Heptachlor	UJ	based on MS/MSD results, see narrative
FWPSE04-004-(0-0.5)	Heptachlor epoxide	UJ	based on MS/MSD results, see narrative
FWPSE04-004-(0-0.5)	Methoxychlor	UJ	based on MS/MSD results, see narrative
FWPSE04-004-(0-0.5)	Toxaphene	UJ	based on MS/MSD results, see narrative
FWPSE04-004-(0-0.5)	Aroclor-1016	UJ	based on MS/MSD results, see narrative
FWPSE04-004-(0-0.5)	Aroclor-1221	UJ	based on MS/MSD results, see narrative
FWPSE04-004-(0-0.5)	Aroclor-1232	UJ	based on MS/MSD results, see narrative
FWPSE04-004-(0-0.5)	Aroclor-1242	UJ	based on MS/MSD results, see narrative
FWPSE04-004-(0-0.5)	Aroclor-1248	UJ	based on MS/MSD results, see narrative
FWPSE04-004-(0-0.5)	Aroclor-1254	UJ	based on MS/MSD results, see narrative

## QUALIFIED DATA TABLE

Field Sample Identification	Analyte	Data Qualifier	Reason for Qualification
FWPSE04-004-(0-0.5)	Aroclor-1260	UJ	based on MS/MSD results, see narrative; calibration drift (%D= -19)
FWPSE04-004-(0-0.5)	Acetone	U	equipment blank contamination (0.00427 JB mg/L), laboratory blank contamination (0.0016 J mg/kg), result is between SDL and SQL
FWPSE04-004-(0-0.5)	Acrolein	UJ	low instrument response (low RRF), elevate SDL for NDs 11x (Sed); low MS/MSD ave recovery (4%)
FWPSE04-004-(0-0.5)	Bromomethane	J	calibration drift (%D= +27), result is between SDL and SQL
FWPSE04-004-(0-0.5)	Methylene chloride	U	laboratory blank contamination (0.00278 J mg/kg), result is between SDL and SQL
FWPSE04-004-(0-0.5)	n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (SW/GW) or 50x (Sed)
FWPSE04-004-(0-0.5)	Vinyl acetate	UJ	low MS/MSD ave recovery (56.5%)
FWPSE04-004-(0-0.5)	Vinyl chloride	UJ	poor calibration fit (%RSD=18)
FWPSE04-004-(0-0.5)	2,4-Dinitrophenol	UJ	low LCS/LCSD ave recovery (20.5%), low MS/MSD ave recovery (32.5%)
FWPSE04-004-(0-0.5)	2-Chlorophenol	UJ	low LCS/LCSD ave recovery (57.5%), low MS/MSD ave recovery (58.5%)
FWPSE04-004-(0-0.5)	3-Nitroaniline	UJ	low MS/MSD ave recovery (36.5%)
FWPSE04-004-(0-0.5)	4,6-Dinitro-2-methylphenol	UJ	low LCS/LCSD ave recovery (27%), low MS/MSD ave recovery (45%)
FWPSE04-004-(0-0.5)	4-Chloroaniline	UJ	low LCS/LCSD ave recovery (58%), low MS/MSD ave recovery (31%)
FWPSE04-004-(0-0.5)	4-Nitroaniline	UJ	low MS/MSD ave recovery (47%)
FWPSE04-004-(0-0.5)	Aniline	UJ	low LCS/LCSD ave recovery (54%), low MS/MSD ave recovery (30%),
FWPSE04-004-(0-0.5)	Benzaldehyde	UJ	calibration drift (%D= -46), low LCS/LCSD ave recovery (20.5%), low MS/MSD ave recovery (23.5%)
FWPSE04-004-(0-0.5)	Benzidine	UJ	poor calibration fit (%RSD=50), calibration drift (%D= -59), low LCS/LCSD ave recovery (53%), low MS/MSD ave recovery (4.5%),
FWPSE04-004-(0-0.5)	Benzoic acid	UJ	low LCS/LCSD ave recovery (44.5%), low MS/MSD ave recovery (20.5%)
FWPSE04-004-(0-0.5)	Biphenyl	U	laboratory blank contamination (0.171 J mg/kg), result is between SDL and SQL
FWPSE04-004-(0-0.5)	Bis(2-Chloroethyl)ether	UJ	low LCS/LCSD ave recovery (58.5%), low MS/MSD ave recovery (56.5%)
FWPSE04-004-(0-0.5)	Bis(2-Ethylhexyl)phthalate	U	equipment blank contamination (0.00259 J mg/L), laboratory blank contamination (0.024 J mg/kg), result is between SDL and SQL
FWPSE04-004-(0-0.5)	Di-n-octyl phthalate	UJ	poor calibration fit (%RSD=17)
FWPSE04-004-(0-0.5)	Hexachlorocyclopentadiene	UJ	low LCS/LCSD ave recovery (36.5%), low MS/MSD ave recovery (18.5%)
FWPSE04-004-(0-0.5)	Hexachloroethane	UJ	low LCS/LCSD ave recovery (59.5%)
FWPSE04-004-(0-0.5)	n-Nitrosodimethylamine	UJ	poor calibration fit (%RSD=28), low LCS/LCSD ave recovery (53%), low MS/MSD ave recovery (20.5%),
FWPSE04-004-(0-0.5)	o-Cresol	UJ	low LCS/LCSD ave recovery (57%), low MS/MSD ave recovery (58%)
FWPSE04-004-(0-0.5)	Phenol	UJ	low LCS/LCSD ave recovery (58%), low MS/MSD ave recovery (57%)
FWPSE04-004-(0-0.5)	Pyridine	UJ	poor calibration fit (%RSD=24)
FWPSE05-005-(0-0.5)	Antimony	R	extremely low MS/MSD ave recovery (25%)
FWPSE05-005-(0-0.5)	Boron	U	equipment blank contamination (0.03 B mg/L)
FWPSE05-005-(0-0.5)	Cadmium	J	result is between SDL and SQL
FWPSE05-005-(0-0.5)	4,4'-DDD	UJ	based on MS/MSD results, see narrative
FWPSE05-005-(0-0.5)	4,4'-DDE	UJ	based on MS/MSD results, see narrative
FWPSE05-005-(0-0.5)	4,4'-DDT	UJ	column 1 calibration drift (%D= -16); based on MS/MSD results, see narrative
FWPSE05-005-(0-0.5)	Aldrin	UJ	based on MS/MSD results, see narrative

## QUALIFIED DATA TABLE

Field Sample Identification	Analyte	Data Qualifier	Reason for Qualification
FWPSE05-005-(0-0.5)	alpha-BHC	UJ	based on MS/MSD results, see narrative
FWPSE05-005-(0-0.5)	alpha-Chlordane	UJ	based on MS/MSD results, see narrative
FWPSE05-005-(0-0.5)	beta-BHC	UJ	based on MS/MSD results, see narrative
FWPSE05-005-(0-0.5)	delta-BHC	UJ	based on MS/MSD results, see narrative
FWPSE05-005-(0-0.5)	Dieldrin	UJ	based on MS/MSD results, see narrative
FWPSE05-005-(0-0.5)	Endosulfan I	UJ	based on MS/MSD results, see narrative
FWPSE05-005-(0-0.5)	Endosulfan II	UJ	based on MS/MSD results, see narrative
FWPSE05-005-(0-0.5)	Endosulfan sulfate	UJ	based on MS/MSD results, see narrative
FWPSE05-005-(0-0.5)	Endrin	UJ	based on MS/MSD results, see narrative
FWPSE05-005-(0-0.5)	Endrin aldehyde	UJ	based on MS/MSD results, see narrative
FWPSE05-005-(0-0.5)	Endrin ketone	UJ	based on MS/MSD results, see narrative
FWPSE05-005-(0-0.5)	gamma-BHC (Lindane)	UJ	based on MS/MSD results, see narrative
FWPSE05-005-(0-0.5)	gamma-Chlordane	UJ	based on MS/MSD results, see narrative
FWPSE05-005-(0-0.5)	Heptachlor	UJ	based on MS/MSD results, see narrative
FWPSE05-005-(0-0.5)	Heptachlor epoxide	UJ	based on MS/MSD results, see narrative
FWPSE05-005-(0-0.5)	Methoxychlor	UJ	based on MS/MSD results, see narrative
FWPSE05-005-(0-0.5)	Toxaphene	UJ	based on MS/MSD results, see narrative
FWPSE05-005-(0-0.5)	Aroclor-1016	UJ	based on MS/MSD results, see narrative
FWPSE05-005-(0-0.5)	Aroclor-1221	UJ	based on MS/MSD results, see narrative
FWPSE05-005-(0-0.5)	Aroclor-1232	UJ	based on MS/MSD results, see narrative
FWPSE05-005-(0-0.5)	Aroclor-1242	UJ	based on MS/MSD results, see narrative
FWPSE05-005-(0-0.5)	Aroclor-1248	UJ	based on MS/MSD results, see narrative
FWPSE05-005-(0-0.5)	Aroclor-1254	UJ	based on MS/MSD results, see narrative
FWPSE05-005-(0-0.5)	Aroclor-1260	UJ	based on MS/MSD results, see narrative; calibration drift (%D= -19)
FWPSE05-005-(0-0.5)	Acrolein	UJ	low instrument response (low RRF), elevate SDL for NDs 11x (Sed); low MS/MSD ave recovery (4%)
FWPSE05-005-(0-0.5)	Bromomethane	J	calibration drift (%D= +27), result is between SDL and SQL
FWPSE05-005-(0-0.5)	n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (SW/GW) or 50x (Sed)
FWPSE05-005-(0-0.5)	Vinyl acetate	UJ	low MS/MSD ave recovery (56.5%)
FWPSE05-005-(0-0.5)	Vinyl chloride	UJ	poor calibration fit (%RSD=18)
FWPSE05-005-(0-0.5)	2,4,5-Trichlorophenol	UJ	low Acid SU recovery (57%), low Acid SU recovery (59%)
FWPSE05-005-(0-0.5)	2,4,6-Trichlorophenol	UJ	low Acid SU recovery (57%), low Acid SU recovery (59%)
FWPSE05-005-(0-0.5)	2,4-Dichlorophenol	UJ	low Acid SU recovery (57%), low Acid SU recovery (59%)
FWPSE05-005-(0-0.5)	2,4-Dimethylphenol	UJ	low Acid SU recovery (57%), low Acid SU recovery (59%)
FWPSE05-005-(0-0.5)	2,4-Dinitrophenol	UJ	low LCS/LCSD ave recovery (20.5%), low MS/MSD ave recovery (32.5%), low Acid SU recovery (57%), low Acid SU recovery (59%)
FWPSE05-005-(0-0.5)	2-Chlorophenol	UJ	low LCS/LCSD ave recovery (57.5%), low MS/MSD ave recovery (58.5%), low Acid SU recovery (57%), low Acid SU recovery (59%)
FWPSE05-005-(0-0.5)	2-Nitrophenol	UJ	low Acid SU recovery (57%), low Acid SU recovery (59%)
FWPSE05-005-(0-0.5)	3-Nitroaniline	UJ	low MS/MSD ave recovery (36.5%)
FWPSE05-005-(0-0.5)	4,6-Dinitro-2-methylphenol	UJ	low LCS/LCSD ave recovery (27%), low MS/MSD ave recovery (45%), low Acid SU recovery (57%), low Acid SU recovery (59%)
FWPSE05-005-(0-0.5)	4-Chloro-3-methylphenol	UJ	low Acid SU recovery (57%), low Acid SU recovery (59%)
FWPSE05-005-(0-0.5)	4-Chloroaniline	UJ	low LCS/LCSD ave recovery (58%), low MS/MSD ave recovery (31%)
FWPSE05-005-(0-0.5)	4-Nitroaniline	UJ	low MS/MSD ave recovery (47%)
FWPSE05-005-(0-0.5)	4-Nitrophenol	UJ	low Acid SU recovery (57%), low Acid SU recovery (59%)
FWPSE05-005-(0-0.5)	Aniline	UJ	low LCS/LCSD ave recovery (54%), low MS/MSD ave recovery (30%),

## QUALIFIED DATA TABLE

Field Sample Identification	Analyte	Data Qualifier	Reason for Qualification
FWPSE05-005-(0-0.5)	Benzaldehyde	UJ	calibration drift (%D= -46), low LCS/LCSD ave recovery (20.5%), low MS/MSD ave recovery (23.5%)
FWPSE05-005-(0-0.5)	Benzidine	UJ	poor calibration fit (%RSD=50), calibration drift (%D= -59), low LCS/LCSD ave recovery (53%), low MS/MSD ave recovery (4.5%),
FWPSE05-005-(0-0.5)	Benzo(b)fluoranthene	J	result is between SDL and SQL
FWPSE05-005-(0-0.5)	Benzoic acid	UJ	low LCS/LCSD ave recovery (44.5%), low MS/MSD ave recovery (20.5%)
FWPSE05-005-(0-0.5)	Biphenyl	U	laboratory blank contamination (0.171 J mg/kg), result is between SDL and SQL
FWPSE05-005-(0-0.5)	Bis(2-Chloroethyl)ether	UJ	low LCS/LCSD ave recovery (58.5%), low MS/MSD ave recovery (56.5%)
FWPSE05-005-(0-0.5)	Bis(2-Ethylhexyl)phthalate	U	equipment blank contamination (0.00259 J mg/L), laboratory blank contamination (0.024 J mg/kg), result is between SDL and SQL
FWPSE05-005-(0-0.5)	Di-n-octyl phthalate	UJ	poor calibration fit (%RSD=17)
FWPSE05-005-(0-0.5)	Hexachlorocyclopentadiene	UJ	low LCS/LCSD ave recovery (36.5%), low MS/MSD ave recovery (18.5%)
FWPSE05-005-(0-0.5)	Hexachloroethane	UJ	low LCS/LCSD ave recovery (59.5%)
FWPSE05-005-(0-0.5)	m,p-Cresol	UJ	low Acid SU recovery (57%), low Acid SU recovery (59%)
FWPSE05-005-(0-0.5)	n-Nitrosodimethylamine	UJ	poor calibration fit (%RSD=28), low LCS/LCSD ave recovery (53%), low MS/MSD ave recovery (20.5%),
FWPSE05-005-(0-0.5)	o-Cresol	UJ	low LCS/LCSD ave recovery (57%), low MS/MSD ave recovery (58%), low Acid SU recovery (57%), low Acid SU recovery (59%)
FWPSE05-005-(0-0.5)	Pentachlorophenol	UJ	low Acid SU recovery (57%), low Acid SU recovery (59%)
FWPSE05-005-(0-0.5)	Phenol	UJ	low LCS/LCSD ave recovery (58%), low MS/MSD ave recovery (57%), low Acid SU recovery (57%), low Acid SU recovery (59%)
FWPSE05-005-(0-0.5)	Pyridine	UJ	poor calibration fit (%RSD=24)
SE-501-(0-0.5)	Antimony	R	extremely low MS/MSD ave recovery (25%)
SE-501-(0-0.5)	Boron	U	equipment blank contamination (0.03 B mg/L)
SE-501-(0-0.5)	Cadmium	J	result is between SDL and SQL
SE-501-(0-0.5)	4,4'-DDD	UJ	based on MS/MSD results, see narrative
SE-501-(0-0.5)	4,4'-DDE	UJ	based on MS/MSD results, see narrative
SE-501-(0-0.5)	4,4'-DDT	UJ	column 1 calibration drift (%D= -16); based on MS/MSD results, see narrative
SE-501-(0-0.5)	Aldrin	UJ	based on MS/MSD results, see narrative
SE-501-(0-0.5)	alpha-BHC	UJ	based on MS/MSD results, see narrative
SE-501-(0-0.5)	alpha-Chlordane	UJ	based on MS/MSD results, see narrative
SE-501-(0-0.5)	beta-BHC	UJ	based on MS/MSD results, see narrative
SE-501-(0-0.5)	delta-BHC	UJ	based on MS/MSD results, see narrative
SE-501-(0-0.5)	Dieldrin	UJ	based on MS/MSD results, see narrative
SE-501-(0-0.5)	Endosulfan I	UJ	based on MS/MSD results, see narrative
SE-501-(0-0.5)	Endosulfan II	UJ	based on MS/MSD results, see narrative
SE-501-(0-0.5)	Endosulfan sulfate	UJ	based on MS/MSD results, see narrative
SE-501-(0-0.5)	Endrin	UJ	based on MS/MSD results, see narrative
SE-501-(0-0.5)	Endrin aldehyde	UJ	based on MS/MSD results, see narrative
SE-501-(0-0.5)	Endrin ketone	UJ	based on MS/MSD results, see narrative
SE-501-(0-0.5)	gamma-BHC (Lindane)	UJ	based on MS/MSD results, see narrative
SE-501-(0-0.5)	gamma-Chlordane	UJ	based on MS/MSD results, see narrative
SE-501-(0-0.5)	Heptachlor	UJ	based on MS/MSD results, see narrative
SE-501-(0-0.5)	Heptachlor epoxide	UJ	based on MS/MSD results, see narrative
SE-501-(0-0.5)	Methoxychlor	UJ	based on MS/MSD results, see narrative
SE-501-(0-0.5)	Toxaphene	UJ	based on MS/MSD results, see narrative

## QUALIFIED DATA TABLE

Field Sample Identification	Analyte	Data Qualifier	Reason for Qualification
SE-501-(0-0.5)	Aroclor-1016	UJ	based on MS/MSD results, see narrative
SE-501-(0-0.5)	Aroclor-1221	UJ	based on MS/MSD results, see narrative
SE-501-(0-0.5)	Aroclor-1232	UJ	based on MS/MSD results, see narrative
SE-501-(0-0.5)	Aroclor-1242	UJ	based on MS/MSD results, see narrative
SE-501-(0-0.5)	Aroclor-1248	UJ	based on MS/MSD results, see narrative
SE-501-(0-0.5)	Aroclor-1254	UJ	based on MS/MSD results, see narrative
SE-501-(0-0.5)	Aroclor-1260	UJ	based on MS/MSD results, see narrative; calibration drift (%D= -19)
SE-501-(0-0.5)	Acetone	U	equipment blank contamination (0.00427 JB mg/L), laboratory blank contamination (0.0016 J mg/kg), result is between SDL and SQL
SE-501-(0-0.5)	Acrolein	UJ	low instrument response (low RRF), elevate SDL for NDs 11x (Sed); low MS/MSD ave recovery (4%)
SE-501-(0-0.5)	Methylene chloride	U	laboratory blank contamination (0.00278 J mg/kg), result is between SDL and SQL
SE-501-(0-0.5)	n-Butyl alcohol	UJ	low instrument response (low RRF); elevate SDL for NDs 2x (SW/GW) or 50x (Sed)
SE-501-(0-0.5)	Vinyl acetate	UJ	low MS/MSD ave recovery (56.5%)
SE-501-(0-0.5)	Vinyl chloride	UJ	poor calibration fit (%RSD=18)
SE-501-(0-0.5)	2,4-Dinitrophenol	UJ	low LCS/LCSD ave recovery (20.5%), low MS/MSD ave recovery (32.5%)
SE-501-(0-0.5)	2-Chlorophenol	UJ	low LCS/LCSD ave recovery (57.5%), low MS/MSD ave recovery (58.5%)
SE-501-(0-0.5)	3-Nitroaniline	UJ	low MS/MSD ave recovery (36.5%)
SE-501-(0-0.5)	4,6-Dinitro-2-methylphenol	UJ	low LCS/LCSD ave recovery (27%), low MS/MSD ave recovery (45%)
SE-501-(0-0.5)	4-Chloroaniline	UJ	low LCS/LCSD ave recovery (58%), low MS/MSD ave recovery (31%)
SE-501-(0-0.5)	4-Nitroaniline	UJ	low MS/MSD ave recovery (47%)
SE-501-(0-0.5)	Aniline	UJ	low LCS/LCSD ave recovery (54%), low MS/MSD ave recovery (30%),
SE-501-(0-0.5)	Benzaldehyde	J	result is between SDL and SQL, calibration drift (%D= -46), low LCS/LCSD ave recovery (20.5%), low MS/MSD ave recovery (23.5%)
SE-501-(0-0.5)	Benzidine	UJ	poor calibration fit (%RSD=50), calibration drift (%D= -59), low LCS/LCSD ave recovery (53%), low MS/MSD ave recovery (4.5%),
SE-501-(0-0.5)	Benzo(b)fluoranthene	J	result is between SDL and SQL
SE-501-(0-0.5)	Benzoic acid	UJ	low LCS/LCSD ave recovery (44.5%), low MS/MSD ave recovery (20.5%)
SE-501-(0-0.5)	Biphenyl	U	laboratory blank contamination (0.171 J mg/kg), result is between SDL and SQL
SE-501-(0-0.5)	Bis(2-Chloroethyl)ether	UJ	low LCS/LCSD ave recovery (58.5%), low MS/MSD ave recovery (56.5%)
SE-501-(0-0.5)	Bis(2-Ethylhexyl)phthalate	U	equipment blank contamination (0.00259 J mg/L), laboratory blank contamination (0.024 J mg/kg), result is between SDL and SQL
SE-501-(0-0.5)	Di-n-octyl phthalate	UJ	poor calibration fit (%RSD=17)
SE-501-(0-0.5)	Hexachlorocyclopentadiene	UJ	low LCS/LCSD ave recovery (36.5%), low MS/MSD ave recovery (18.5%)
SE-501-(0-0.5)	Hexachloroethane	UJ	low LCS/LCSD ave recovery (59.5%)
SE-501-(0-0.5)	Indeno(1,2,3-cd)pyrene	J	result is between SDL and SQL
SE-501-(0-0.5)	n-Nitrosodimethylamine	UJ	poor calibration fit (%RSD=28), low LCS/LCSD ave recovery (53%), low MS/MSD ave recovery (20.5%),
SE-501-(0-0.5)	o-Cresol	UJ	low LCS/LCSD ave recovery (57%), low MS/MSD ave recovery (58%)
SE-501-(0-0.5)	Phenol	UJ	low LCS/LCSD ave recovery (58%), low MS/MSD ave recovery (57%)
SE-501-(0-0.5)	Pyridine	UJ	poor calibration fit (%RSD=24)

## ATTACHMENT 1

Sample_ID	Lab_Sample_ID	Test_type_code	Analytical_Method	Total_or_dissolved	Matrix	Parameter	Valid_qualifier	Result_type_code	Prep_date	Prep_time	Analysis_Date	Analysis_Time	QC_comment	QC_Batch
MB for HBN 329581 [DIGM/12372]	397835	LB	SW6010B	total	S	Aluminum	U to RRs < 5 x BlankEquivConc (none)	TRG	8/7/06	11:20	8/9/06	15:52	laboratory blank contamination (1.45 B mg/kg)	329836
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW6010B	total	S	Aluminum	none (waived due to high parent conc)	TRG	8/7/06	11:20	8/9/06	13:20	high MS/MSD ave recovery (888%)	329836
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW6010B	total	S	Antimony	J- / R to RRs/NDs	TRG	8/7/06	11:20	8/9/06	13:20	extremely low MS/MSD ave recovery (25%)	329836
MB for HBN 329581 [DIGM/12372]	397835	LB	SW6010B	total	S	Barium	U to RRs < 5 x BlankEquivConc (none)	TRG	8/7/06	11:20	8/9/06	15:52	laboratory blank contamination (0.13 B mg/kg)	329836
FWPSE-006-EB	20608043109	EQBK	SW6010B	total	W	Barium	U to RRs < 5 x BlankEquivConc (none)	TRG	8/7/06	10:30	8/8/06	16:54	equipment blank contamination (0.00065 B mg/L)	329771
FWPSE-006-EB	20608043109	EQBK	SW6010B	total	W	Boron	U to RRs < 5 x BlankEquivConc	TRG	8/7/06	10:30	8/8/06	16:54	equipment blank contamination (0.03 B mg/L)	329771
MB for HBN 329581 [DIGM/12372]	397835	LB	SW6010B	total	S	Iron	U to RRs < 5 x BlankEquivConc (none)	TRG	8/7/06	11:20	8/9/06	15:52	laboratory blank contamination (1.04 B mg/kg)	329836
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW6010B	total	S	Iron	none (waived due to high parent conc)	TRG	8/7/06	11:20	8/9/06	13:20	high MS/MSD ave recovery (588.5%)	329836
FWPSE-006-EB	20608043109	EQBK	SW6010B	total	W	Lead	U to RRs < 5 x BlankEquivConc (none)	TRG	8/7/06	10:30	8/8/06	16:54	equipment blank contamination (0.0017 B mg/L)	329771
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW6010B	total	S	Manganese	none (waived due to high parent conc)	TRG	8/7/06	11:20	8/9/06	13:20	high MS/MSD ave recovery (146%)	329836
FWPSE-006-EB	20608043109	EQBK	SW6010B	total	W	Manganese	U to RRs < 5 x BlankEquivConc (none)	TRG	8/7/06	10:30	8/8/06	16:54	equipment blank contamination (0.002 B mg/L)	329771
FWPSE-006-EB	20608043109	EQBK	SW6010B	total	W	Selenium	U to RRs < 5 x BlankEquivConc (none)	TRG	8/7/06	10:30	8/8/06	16:54	equipment blank contamination (0.0086 B mg/L)	329771
FWPSE-006-EB	20608043109	EQBK	SW6010B	total	W	Strontium	U to RRs < 5 x BlankEquivConc (none)	TRG	8/7/06	10:30	8/8/06	16:54	equipment blank contamination (0.0023 B mg/L)	329771
FWPSE-006-EB	20608043109	EQBK	SW6010B	total	W	Thallium	U to RRs < 5 x BlankEquivConc (none)	TRG	8/7/06	10:30	8/8/06	16:54	equipment blank contamination (0.0019 B mg/L)	329771
MB for HBN 329581 [DIGM/12372]	397835	LB	SW6010B	total	S	Tin	U to RRs < 5 x BlankEquivConc (none)	TRG	8/7/06	11:20	8/9/06	15:52	laboratory blank contamination (0.51 B mg/kg)	329836
MB for HBN 329581 [DIGM/12372]	397835	LB	SW6010B	total	S	Titanium	U to RRs < 5 x BlankEquivConc (none)	TRG	8/7/06	11:20	8/9/06	15:52	laboratory blank contamination (0.015 B mg/kg)	329836
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW6010B	total	S	Titanium	none (waived due to high parent conc)	TRG	8/7/06	11:20	8/9/06	13:20	low MS/MSD ave recovery (61.5%)	329836
MB for HBN 329581 [DIGM/12372]	397835	LB	SW6010B	total	S	Vanadium	U to RRs < 5 x BlankEquivConc (none)	TRG	8/7/06	11:20	8/9/06	15:52	laboratory blank contamination (0.074 B mg/kg)	329836
MB for HBN 329581 [DIGM/12372]	397835	LB	SW6010B	total	S	Zinc	U to RRs < 5 x BlankEquivConc (none)	TRG	8/7/06	11:20	8/9/06	15:52	laboratory blank contamination (0.43 B mg/kg)	329836

## ATTACHMENT 1

Sample_ID	Lab_Sample_ID	Test_type_code	Analytical_Method	Total_or_dissolved	Matrix	Parameter	Valid_qualifier	Result_type_code	Prep_date	Prep_time	Analysis_Date	Analysis_Time	QC_comment	QC_Batch
FWPSE-006-EB	20608043109	EQBK	SW6010B	total	W	Zinc	U to RRs < 5 x BlankEquivConc (none)	TRG	8/7/06	10:30	8/8/06	16:54	equipment blank contamination (0.0044 B mg/L)	329771
x	2060811sv16 a002	CCV1	SW8081A			4,4'-DDT	J- / UJ to RRs/NDs	Pest			8/11/06	16:05	calibration drift (%D= -16)	
x	2060811sv16 a025	CCV1	SW8081A			alpha-BHC	J+ to RRs (none)	Pest			8/11/06	0:08	calibration drift (%D= 17)	
FWPSE-006-EB	20608043109	EQBK	SW8081A		W	Aldrin	U to RRs < 5 x BlankEquivConc (none)	TRG	8/5/06	8:00	8/7/06	18:48	equipment blank contamination (0.0000231 J mg/L)	329857
FWPSE-006-EB	20608043109	EQBK	SW8081A		W	gamma-BHC (Lindane)	U to RRs < 5 x BlankEquivConc (none)	TRG	8/5/06	8:00	8/7/06	18:48	equipment blank contamination (0.000017 J mg/L)	329857
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8081A		S	4,4'-DDD	J/ UJ to all Pesticides (see narrative)	TRG	8/5/06	11:00	8/11/06	18:51	high MS/MSD ave recovery (164%)	330422
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8081A		S	4,4'-DDD	J/ UJ to all Pesticides (see narrative)	TRG	8/5/06	11:00	8/11/06	18:51	poor MS/MSD precision (162 RPD)	330422
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8081A		S	4,4'-DDE	J/ UJ to all Pesticides (see narrative)	TRG	8/5/06	11:00	8/11/06	18:51	high MS/MSD ave recovery (2785%)	330422
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8081A		S	4,4'-DDE	J/ UJ to all Pesticides (see narrative)	TRG	8/5/06	11:00	8/11/06	18:51	poor MS/MSD precision (52 RPD)	330422
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8081A		S	Aldrin	J/ UJ to all Pesticides (see narrative)	TRG	8/5/06	11:00	8/11/06	18:51	high MS/MSD ave recovery (744%)	330422
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8081A		S	alpha-BHC	J/ UJ to all Pesticides (see narrative)	TRG	8/5/06	11:00	8/11/06	18:51	high MS/MSD ave recovery (278.5%)	330422
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8081A		S	alpha-Chlordane	J/ UJ to all Pesticides (see narrative)	TRG	8/5/06	11:00	8/11/06	18:51	high MS/MSD ave recovery (1810%)	330422
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8081A		S	beta-BHC	J/ UJ to all Pesticides (see narrative)	TRG	8/5/06	11:00	8/11/06	18:51	high MS/MSD ave recovery (1435%)	330422
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8081A		S	delta-BHC	J/ UJ to all Pesticides (see narrative)	TRG	8/5/06	11:00	8/11/06	18:51	high MS/MSD ave recovery (1120%)	330422
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8081A		S	Dieldrin	J/ UJ to all Pesticides (see narrative)	TRG	8/5/06	11:00	8/11/06	18:51	high MS/MSD ave recovery (2020%)	330422
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8081A		S	Endosulfan I	J/ UJ to all Pesticides (see narrative)	TRG	8/5/06	11:00	8/11/06	18:51	high MS/MSD ave recovery (5120%)	330422
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8081A		S	Endosulfan I	J/ UJ to all Pesticides (see narrative)	TRG	8/5/06	11:00	8/11/06	18:51	poor MS/MSD precision (112 RPD)	330422
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8081A		S	Endosulfan II	J/ UJ to all Pesticides (see narrative)	TRG	8/5/06	11:00	8/11/06	18:51	high MS/MSD ave recovery (174%)	330422
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8081A		S	Endrin	J/ UJ to all Pesticides (see narrative)	TRG	8/5/06	11:00	8/11/06	18:51	high MS/MSD ave recovery (417.5%)	330422

## ATTACHMENT 1

Sample_ID	Lab_Sample_ID	Test_type_code	Analytical_Method	Total_or_dissolved	Matrix	Parameter	Valid_qualifier	Result_type_code	Prep_date	Prep_time	Analysis_Date	Analysis_Time	QC_comment	QC_Batch
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8081A		S	gamma-BHC (Lindane)	J/ UJ to all Pesticides (see narrative)	TRG	8/5/06	11:00	8/11/06	18:51	high MS/MSD ave recovery (640.5%)	330422
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8081A		S	gamma-Chlordane	J/ UJ to all Pesticides (see narrative)	TRG	8/5/06	11:00	8/11/06	18:51	high MS/MSD ave recovery (5310%)	330422
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8081A		S	Heptachlor	J/ UJ to all Pesticides (see narrative)	TRG	8/5/06	11:00	8/11/06	18:51	high MS/MSD ave recovery (995.5%)	330422
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8081A		S	Heptachlor epoxide	J/ UJ to all Pesticides (see narrative)	TRG	8/5/06	11:00	8/11/06	18:51	high MS/MSD ave recovery (3540%)	330422
FWPSE01-001-(0-0.5)	20608043101	SMP	SW8081A		S	Decachlorobiphenyl	none (surrogate diluted out)	SUR	8/5/06	11:00	8/11/06	17:36	extremely low SU recovery (0%)	330422
FWPSE01-001-(0-0.5)	20608043101	SMP	SW8081A		S	Tetrachloro-m-xylene	none (surrogate diluted out)	SUR	8/5/06	11:00	8/11/06	17:36	extremely low SU recovery (0%)	330422
SE-501-(0-0.5)	20608043104	SMP	SW8081A		S	Decachlorobiphenyl	none (surrogate diluted out)	SUR	8/5/06	11:00	8/11/06	20:43	extremely low SU recovery (0%)	330422
SE-501-(0-0.5)	20608043104	SMP	SW8081A		S	Tetrachloro-m-xylene	none (surrogate diluted out)	SUR	8/5/06	11:00	8/11/06	20:43	extremely low SU recovery (0%)	330422
FWPSE04-004-(0-0.5)	20608043105	SMP	SW8081A		S	Decachlorobiphenyl	none (surrogate diluted out)	SUR	8/5/06	11:00	8/11/06	21:20	extremely low SU recovery (0%)	330422
FWPSE04-004-(0-0.5)	20608043105	SMP	SW8081A		S	Tetrachloro-m-xylene	none (surrogate diluted out)	SUR	8/5/06	11:00	8/11/06	21:20	extremely low SU recovery (0%)	330422
FWPSE02-002-(0-0.5)	20608043106	SMP	SW8081A		S	Decachlorobiphenyl	none (surrogate diluted out)	SUR	8/5/06	11:00	8/11/06	21:57	extremely low SU recovery (0%)	330422
FWPSE02-002-(0-0.5)	20608043106	SMP	SW8081A		S	Tetrachloro-m-xylene	none (surrogate diluted out)	SUR	8/5/06	11:00	8/11/06	21:57	extremely low SU recovery (0%)	330422
FWPSE03-003-(0-0.5)	20608043107	SMP	SW8081A		S	Decachlorobiphenyl	none (surrogate diluted out)	SUR	8/5/06	11:00	8/11/06	22:35	extremely low SU recovery (0%)	330422
FWPSE03-003-(0-0.5)	20608043107	SMP	SW8081A		S	Tetrachloro-m-xylene	none (surrogate diluted out)	SUR	8/5/06	11:00	8/11/06	22:35	extremely low SU recovery (0%)	330422
FWPSE05-005-(0-0.5)	20608043108	SMP	SW8081A		S	Decachlorobiphenyl	none (surrogate diluted out)	SUR	8/5/06	11:00	8/11/06	23:12	extremely low SU recovery (0%)	330422
FWPSE05-005-(0-0.5)	20608043108	SMP	SW8081A		S	Tetrachloro-m-xylene	none (surrogate diluted out)	SUR	8/5/06	11:00	8/11/06	23:12	extremely low SU recovery (0%)	330422
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8082		S	Aroclor-1016	J/ UJ to all Aroclors (see narrative)	TRG	8/5/06	11:00	8/11/06	20:05	high MS/MSD ave recovery (991.5%)	330424
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8082		S	Aroclor-1260	J/ UJ to all Aroclors (see narrative)	TRG	8/5/06	11:00	8/11/06	20:05	high MS/MSD ave recovery (724.5%)	330424
x	2060811sv16 a003	CCV1	SW8082			AR 1260-Peak1	J- / UJ to RRs/NDs	Aro			8/11/06	16:24	calibration drift (%D= -19)	

## ATTACHMENT 1

Sample_ID	Lab_Sample_ID	Test_type_code	Analytical_Method	Total_or_dissolved	Matrix	Parameter	Valid_qualifier	Result_type_code	Prep_date	Prep_time	Analysis_Date	Analysis_Time	QC_comment	QC_Batch
FWPSE01-001-(0-0.5)	20608043101	SMP	SW8082		S	Decachlorobiphenyl	none (surrogate diluted out)	SUR	8/5/06	11:00	8/11/06	17:36	extremely low SU recovery (0%)	330424
FWPSE02-002-(0-0.5)	20608043106	SMP	SW8082		S	Decachlorobiphenyl	none (surrogate diluted out)	SUR	8/5/06	11:00	8/11/06	21:57	extremely low SU recovery (0%)	330424
FWPSE03-003-(0-0.5)	20608043107	SMP	SW8082		S	Decachlorobiphenyl	none (surrogate diluted out)	SUR	8/5/06	11:00	8/11/06	22:35	extremely low SU recovery (0%)	330424
FWPSE04-004-(0-0.5)	20608043105	SMP	SW8082		S	Decachlorobiphenyl	none (surrogate diluted out)	SUR	8/5/06	11:00	8/11/06	21:20	extremely low SU recovery (0%)	330424
FWPSE05-005-(0-0.5)	20608043108	SMP	SW8082		S	Decachlorobiphenyl	none (surrogate diluted out)	SUR	8/5/06	11:00	8/11/06	23:12	extremely low SU recovery (0%)	330424
SE-501-(0-0.5)	20608043104	SMP	SW8082		S	Decachlorobiphenyl	none (surrogate diluted out)	SUR	8/5/06	11:00	8/11/06	20:43	extremely low SU recovery (0%)	330424
x	B6593	CCV1	SW8260B			2-Butanone	J+ to RRs (none)	VOC			8/11/06	12:13	calibration drift (%D= 28)	
x	G7235	CCV1	SW8260B			2-Chloroethyl vinyl ether	J+ to RRs (none)	VOC			8/11/06	7:59	calibration drift (%D= 23)	
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8260B		S	2-Chlorotoluene	J+ to RRs (none)	TRG			8/11/06	22:34	high MS/MSD ave recovery (141.5%)	330354
MB for HBN 330354 [IMSV/8854]	400439	LB	SW8260B		S	Acetone	U to RRs < 10 x BlankEquivConc	TRG			8/11/06	14:02	laboratory blank contamination (0.0016 J mg/kg)	330354
FWPSE-006-EB	20608043109	EQBK	SW8260B		W	Acetone	U to RRs < 10 x BlankEquivConc	TRG			8/6/06	19:16	equipment blank contamination (0.00427 JB mg/L)	329645
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8260B		S	Acrolein	J- / UJ to RRs/NDs	TRG			8/11/06	22:34	low MS/MSD ave recovery (4%)	330354
x	B6555	ICAL1	SW8260B			Acrolein	J / UJ to RRs/NDs	VOC			8/10/06	17:59	low instrument response (low RRF); elevate SDL for NDs 11x (Sed)	
x	B6593	CCV1	SW8260B			Bromomethane	J+ to RRs	VOC			8/11/06	12:13	calibration drift (%D= 27)	
x	B6593	CCV1	SW8260B			Chloromethane	J+ to RRs (none)	VOC			8/11/06	12:13	calibration drift (%D= 24)	
x	B6593	CCV1	SW8260B			Methyl cyclohexane	J+ to RRs (none)	VOC			8/11/06	12:13	calibration drift (%D= 24)	
x	B6593	CCV1	SW8260B			Methyl iodide	J+ to RRs	VOC			8/11/06	12:13	calibration drift (%D= 26)	
MB for HBN 330354 [IMSV/8854]	400439	LB	SW8260B		S	Methylene chloride	U to RRs < 10 x BlankEquivConc	TRG			8/11/06	14:02	laboratory blank contamination (0.00278 J mg/kg)	330354
x	G5023	ICAL2	SW8260B			n-Butyl alcohol	J / UJ to RRs/NDs	App9			6/14/06	7:30	low instrument response (low RRF); elevate SDL for NDs 2x (SW/GW) or 50x (Sed)	

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Sample_ID	Lab_Sample_ID	Test_type_code	Analytical_Method	Total_or_dissolved	Matrix	Parameter	Valid_qualifier	Result_type_code	Prep_date	Prep_time	Analysis_Date	Analysis_Time	QC_comment	QC_Batch
x	G7238	CCV2	SW8260B			n-Butyl alcohol	J+ to RRs (none)	App9			8/11/06	9:23	calibration drift (%D= 32)	
x	B6593	CCV1	SW8260B			n-Propylbenzene	J+ to RRs (none)	VOC			8/11/06	12:13	calibration drift (%D= 21)	
x	B6593	CCV1	SW8260B			Tetrachloroethene	J+ to RRs (none)	VOC			8/11/06	12:13	calibration drift (%D= 31)	
x	B6593	CCV1	SW8260B			Trichloroethene	J+ to RRs (none)	VOC			8/11/06	12:13	calibration drift (%D= 21)	
x	B6593	CCV1	SW8260B			Trichlorofluoromethane	J+ to RRs (none)	VOC			8/11/06	12:13	calibration drift (%D= 22)	
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8260B		S	Vinyl acetate	J- / UJ to RRs/NDs	TRG			8/11/06	22:34	low MS/MSD ave recovery (56.5%)	330354
x	B6555	ICAL1	SW8260B			Vinyl Chloride	J / UJ to RRs/NDs	VOC			8/10/06	17:59	poor calibration fit (%RSD=18)	
LCSD for HBN 329588 [EXTO/1441]	397868	LCSD	SW8270C		S	2,4-Dinitrophenol	J- / UJ to RRs/NDs	TRG	8/4/06	22:00	8/5/06	20:56	low LCS/LCSD ave recovery (20.5%)	329649
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8270C		S	2,4-Dinitrophenol	J- / UJ to RRs/NDs	TRG	8/4/06	22:00	8/5/06	21:39	low MS/MSD ave recovery (32.5%)	329649
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8270C		S	2,4-Dinitrophenol	J to RRs (none)	TRG	8/4/06	22:00	8/5/06	21:39	poor MS/MSD precision (88 RPD)	329649
LCSD for HBN 329588 [EXTO/1441]	397868	LCSD	SW8270C		S	2-Chlorophenol	J- / UJ to RRs/NDs	TRG	8/4/06	22:00	8/5/06	20:56	low LCS/LCSD ave recovery (57.5%)	329649
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8270C		S	2-Chlorophenol	J- / UJ to RRs/NDs	TRG	8/4/06	22:00	8/5/06	21:39	low MS/MSD ave recovery (58.5%)	329649
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8270C		S	3-Nitroaniline	J- / UJ to RRs/NDs	TRG	8/4/06	22:00	8/5/06	21:39	low MS/MSD ave recovery (36.5%)	329649
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8270C		S	3-Nitroaniline	J to RRs (none)	TRG	8/4/06	22:00	8/5/06	21:39	poor MS/MSD precision (63 RPD)	329649
LCSD for HBN 329588 [EXTO/1441]	397868	LCSD	SW8270C		S	4,6-Dinitro-2-methylphenol	J- / UJ to RRs/NDs	TRG	8/4/06	22:00	8/5/06	20:56	low LCS/LCSD ave recovery (27%)	329649
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8270C		S	4,6-Dinitro-2-methylphenol	J- / UJ to RRs/NDs	TRG	8/4/06	22:00	8/5/06	21:39	low MS/MSD ave recovery (45%)	329649
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8270C		S	4,6-Dinitro-2-methylphenol	J to RRs (none)	TRG	8/4/06	22:00	8/5/06	21:39	poor MS/MSD precision (85 RPD)	329649
LCSD for HBN 329588 [EXTO/1441]	397868	LCSD	SW8270C		S	4-Chloroaniline	J- / UJ to RRs/NDs	TRG	8/4/06	22:00	8/5/06	20:56	low LCS/LCSD ave recovery (58%)	329649
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8270C		S	4-Chloroaniline	J- / UJ to RRs/NDs	TRG	8/4/06	22:00	8/5/06	21:39	low MS/MSD ave recovery (31%)	329649

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Sample_ID	Lab_Sample_ID	Test_type_code	Analytical_Method	Total_or_dissolved	Matrix	Parameter	Valid_qualifier	Result_type_code	Prep_date	Prep_time	Analysis_Date	Analysis_Time	QC_comment	QC_Batch
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8270C		S	4-Chloroaniline	J to RRs (none)	TRG	8/4/06	22:00	8/5/06	21:39	poor MS/MSD precision (66 RPD)	329649
FWPSE-006-EB	20608043109	EQBK	SW8270C		W	4-Chloroaniline	U to RRs < 5 x BlankEquivConc (none)	TRG	8/5/06	15:00	8/7/06	15:32	equipment blank contamination (0.000884 J mg/L)	329694
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8270C		S	4-Nitroaniline	J- / UJ to RRs/NDs	TRG	8/4/06	22:00	8/5/06	21:39	low MS/MSD ave recovery (47%)	329649
LCSD for HBN 329588 [EXTO/1441]	397868	LCSD	SW8270C		S	Aniline	J- / UJ to RRs/NDs	TRG	8/4/06	22:00	8/5/06	20:56	low LCS/LCSD ave recovery (54%)	329649
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8270C		S	Aniline	J- / UJ to RRs/NDs	TRG	8/4/06	22:00	8/5/06	21:39	low MS/MSD ave recovery (30%)	329649
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8270C		S	Aniline	J to RRs (none)	TRG	8/4/06	22:00	8/5/06	21:39	poor MS/MSD precision (54 RPD)	329649
x	D1062	CCV1	SW8270C			Aniline	J- / UJ to RRs/NDs	SVOC			8/6/06	13:38	calibration drift (%D= -26)	
x	D1062	CCV1	SW8270C			Atrazine	J- / UJ to RRs/NDs	SVOC			8/6/06	13:38	calibration drift (%D= -24)	
LCSD for HBN 329588 [EXTO/1441]	397868	LCSD	SW8270C		S	Benzaldehyde	J- / UJ to RRs/NDs	TRG	8/4/06	22:00	8/5/06	20:56	low LCS/LCSD ave recovery (20.5%)	329649
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8270C		S	Benzaldehyde	J- / UJ to RRs/NDs	TRG	8/4/06	22:00	8/5/06	21:39	low MS/MSD ave recovery (23.5%)	329649
x	D1012	CCV1	SW8270C			Benzaldehyde	J- / UJ to RRs/NDs	SVOC			8/5/06	11:15	calibration drift (%D= -46)	
x	D1062	CCV1	SW8270C			Benzaldehyde	J- / UJ to RRs/NDs	SVOC			8/6/06	13:38	calibration drift (%D= -27)	
LCSD for HBN 329588 [EXTO/1441]	397868	LCSD	SW8270C		S	Benzidine	J- / UJ to RRs/NDs	TRG	8/4/06	22:00	8/5/06	20:56	low LCS/LCSD ave recovery (53%)	329649
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8270C		S	Benzidine	J- / UJ to RRs/NDs	TRG	8/4/06	22:00	8/5/06	21:39	low MS/MSD ave recovery (4.5%)	329649
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8270C		S	Benzidine	J to RRs (none)	TRG	8/4/06	22:00	8/5/06	21:39	poor MS/MSD precision (200 RPD)	329649
x	D0930	ICAL1	SW8270C			Benzidine	J / UJ to RRs/NDs	SVOC			8/3/06	11:36	poor calibration fit (%RSD=50)	
x	D1012	CCV1	SW8270C			Benzidine	J- / UJ to RRs/NDs	SVOC			8/5/06	11:15	calibration drift (%D= -59)	
x	D1062	CCV1	SW8270C			Benzidine	J- / UJ to RRs/NDs	SVOC			8/6/06	13:38	calibration drift (%D= -34)	
x	D0930	ICAL1	SW8270C			Benzo(a)pyrene	J to RRs < adjusted SQL (none, all NDs)	SVOC			8/3/06	11:36	lowest ICAL standard at 0.330 mg/kg; adjust SQL 5x (Sed)	

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FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8270C		S	Benzo(g,h,i)perylene	J to RRs (none)	TRG	8/4/06	22:00	8/5/06	21:39	poor MS/MSD precision (43 RPD)	329649	
LCSD for HBN 329588 [EXTO/1441]	397868	LCSD	SW8270C		S	Benzoic acid	J- / UJ to RRs/NDs	TRG	8/4/06	22:00	8/5/06	20:56	low LCS/LCSD ave recovery (44.5%)	329649	
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8270C		S	Benzoic acid	J- / UJ to RRs/NDs	TRG	8/4/06	22:00	8/5/06	21:39	low MS/MSD ave recovery (20.5%)	329649	
MB for HBN 329588 [EXTO/14413]	397866	LB	SW8270C		S	Biphenyl	U to RRs < 5 x BlankEquivConc	TRG	8/4/06	22:00	8/5/06	20:27	laboratory blank contamination (0.171 J mg/kg)	329649	
LCSD for HBN 329588 [EXTO/1441]	397868	LCSD	SW8270C		S	Bis(2-Chloroethyl)ether	J- / UJ to RRs/NDs	TRG	8/4/06	22:00	8/5/06	20:56	low LCS/LCSD ave recovery (58.5%)	329649	
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8270C		S	Bis(2-Chloroethyl)ether	J- / UJ to RRs/NDs	TRG	8/4/06	22:00	8/5/06	21:39	low MS/MSD ave recovery (56.5%)	329649	
MB for HBN 329588 [EXTO/14413]	397866	LB	SW8270C		S	Bis(2-Ethylhexyl)phthalate	U to RRs < 10 x BlankEquivConc	TRG	8/4/06	22:00	8/5/06	20:27	laboratory blank contamination (0.024 J mg/kg)	329649	
FWPSE-006-EB	20608043109	EQBK	SW8270C		W	Bis(2-Ethylhexyl)phthalate	U to RRs < 10 x BlankEquivConc	TRG	8/5/06	15:00	8/7/06	15:32	equipment blank contamination (0.00259 J mg/L)	329694	
x	D0930	ICAL1	SW8270C			bis(2-Ethylhexyl)phthalate	J to RRs < adjusted SQL (none, all J already)	SVOC				8/3/06	11:36	lowest ICAL standard at 0.330 mg/kg; adjust SQL 5x (Sed)	
FWPSE-006-EB	20608043109	EQBK	SW8270C		W	Caprolactam	U to RRs < 5 x BlankEquivConc (none)	TRG	8/5/06	15:00	8/7/06	15:32	equipment blank contamination (0.00202 J mg/L)	329694	
FWPSE-006-EB	20608043109	EQBK	SW8270C		W	Diethyl phthalate	U to RRs < 10 x BlankEquivConc (none)	TRG	8/5/06	15:00	8/7/06	15:32	equipment blank contamination (0.000647 J mg/L)	329694	
x	D0930	ICAL1	SW8270C			Di-n-octylphthalate	J / UJ to RRs/NDs	SVOC				8/3/06	11:36	poor calibration fit (%RSD=17)	
LCSD for HBN 329588 [EXTO/1441]	397868	LCSD	SW8270C		S	Hexachlorocyclopentadiene	J- / UJ to RRs/NDs	TRG	8/4/06	22:00	8/5/06	20:56	low LCS/LCSD ave recovery (36.5%)	329649	
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8270C		S	Hexachlorocyclopentadiene	J- / UJ to RRs/NDs	TRG	8/4/06	22:00	8/5/06	21:39	low MS/MSD ave recovery (18.5%)	329649	
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8270C		S	Hexachlorocyclopentadiene	J to RRs (none)	TRG	8/4/06	22:00	8/5/06	21:39	poor MS/MSD precision (57 RPD)	329649	
LCSD for HBN 329588 [EXTO/1441]	397868	LCSD	SW8270C		S	Hexachloroethane	J- / UJ to RRs/NDs	TRG	8/4/06	22:00	8/5/06	20:56	low LCS/LCSD ave recovery (59.5%)	329649	
LCSD for HBN 329588 [EXTO/1441]	397868	LCSD	SW8270C		S	n-Nitrosodimethylamine	J- / UJ to RRs/NDs	TRG	8/4/06	22:00	8/5/06	20:56	low LCS/LCSD ave recovery (53%)	329649	
LCSD for HBN 329588 [EXTO/1441]	397868	LCSD	SW8270C		S	n-Nitrosodimethylamine	J to RRs (none)	TRG	8/4/06	22:00	8/5/06	20:56	poor LCS/LCSD precision (116 RPD)	329649	
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8270C		S	n-Nitrosodimethylamine	J- / UJ to RRs/NDs	TRG	8/4/06	22:00	8/5/06	21:39	low MS/MSD ave recovery (20.5%)	329649	

## ATTACHMENT 1

Sample_ID	Lab_Sample_ID	Test_type_code	Analytical_Method	Total_or_dissolved	Matrix	Parameter	Valid_qualifier	Result_type_code	Prep_date	Prep_time	Analysis_Date	Analysis_Time	QC_comment	QC_Batch
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8270C		S	n-Nitrosodimethylamine	J to RRs (none)	TRG	8/4/06	22:00	8/5/06	21:39	poor MS/MSD precision (70 RPD)	329649
x	D0930	ICAL1	SW8270C			n-Nitrosodimethylamine	J / UJ to RRs/NDs	SVOC			8/3/06	11:36	poor calibration fit (%RSD=28)	
x	D1062	CCV1	SW8270C			N-Nitrosodimethylamine	J+ to RRs (none)	SVOC			8/6/06	13:38	calibration drift (%D= 32)	
x	D1062	CCV1	SW8270C			N-Nitroso-di-n-propylamine	J- / UJ to RRs/NDs	SVOC			8/6/06	13:38	calibration drift (%D= -21)	
LCSD for HBN 329588 [EXTO/1441]	397868	LCSD	SW8270C		S	o-Cresol	J- / UJ to RRs/NDs	TRG	8/4/06	22:00	8/5/06	20:56	low LCS/LCSD ave recovery (57%)	329649
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8270C		S	o-Cresol	J- / UJ to RRs/NDs	TRG	8/4/06	22:00	8/5/06	21:39	low MS/MSD ave recovery (58%)	329649
LCSD for HBN 329588 [EXTO/1441]	397868	LCSD	SW8270C		S	Phenol	J- / UJ to RRs/NDs	TRG	8/4/06	22:00	8/5/06	20:56	low LCS/LCSD ave recovery (58%)	329649
FWPSE01-001-(0-0.5) MSD	20608043103	MSD	SW8270C		S	Phenol	J- / UJ to RRs/NDs	TRG	8/4/06	22:00	8/5/06	21:39	low MS/MSD ave recovery (57%)	329649
x	D0930	ICAL1	SW8270C			Pyridine	J / UJ to RRs/NDs	SVOC			8/3/06	11:36	poor calibration fit (%RSD=24)	
x	D1012	CCV1	SW8270C			Pyridine	J+ to RRs (none)	SVOC			8/5/06	11:15	calibration drift (%D= 41)	
SE-501-(0-0.5)	20608043104	SMP	SW8270C		S	Phenol-d5	none (only one of multiple surrogates is deficient)	SUR	8/4/06	22:00	8/5/06	21:53	low Acid SU recovery (56%)	329649
FWPSE04-004-(0-0.5)	20608043105	SMP	SW8270C		S	Phenol-d5	none (only one of multiple surrogates is deficient)	SUR	8/4/06	22:00	8/5/06	22:08	low Acid SU recovery (59%)	329649
FWPSE03-003-(0-0.5)	20608043107	SMP	SW8270C		S	Phenol-d5	none (only one of multiple surrogates is deficient)	SUR	8/4/06	22:00	8/5/06	22:36	low Acid SU recovery (59%)	329649
FWPSE05-005-(0-0.5)	20608043108	SMP	SW8270C		S	2,4,6-Tribromophenol	J- / UJ to RRs/NDs for Acid analytes	SUR	8/4/06	22:00	8/5/06	22:51	low Acid SU recovery (59%)	329649
FWPSE05-005-(0-0.5)	20608043108	SMP	SW8270C		S	Phenol-d5	J- / UJ to RRs/NDs for Acid analytes	SUR	8/4/06	22:00	8/5/06	22:51	low Acid SU recovery (57%)	329649
FWPSE05-005-(0-0.5)	20608043108	SMP	SW8270C		S	Terphenyl-d14	none (only one of multiple surrogates is deficient)	SUR	8/4/06	22:00	8/5/06	22:51	low B/N SU recovery (58%)	329649

DATA VALIDATION CHECKLIST (Level III)				
ITEM	Yes	No	NA	Comment Number
Client Name: Pastor, Behling, & Wheeler				Project Number: 1352
Property Location: Gulfco Superfund Site				Project Manager: Eric Pastor
Laboratory: GCAL – Baton Rouge, LA GEL – Charleston, SC				Laboratory Job No.: GCAL - 206080433 GEL - 168609
Reviewer: (QAA, L.L.C.) DAF/Taryn Scholz				Date Checked: 10/9/06
<b>Chain of Custody (COC) and Sample Receipt at Lab</b>				
1. Signed COCs included and seals used?	X			
2. Date and time of sample collection included?	X			
3. All samples listed on the COC analyzed for in accordance with the RI/FS Work Plan?	X			
4. Field QC sample frequency met project requirements?			X	
5. Sample receipt temperature 2-6°C?	X			
6. Samples preserved appropriately?	X			
7. Samples received within 2 days of collection?	X			from GCAL
8. No problems noted?		X		8.
<b>Laboratory Report and Data Package</b>				
9. Signed Case Narrative included?	X			
10. No analytical discrepancies noted in case narrative?		X		10.
11. Elevated reporting limits justified?			X	
12. MDLs reasonable per DCS?			X	12.
13. Calibration data acceptable?	X			ecd8a 081406
14. ICV and CCV recoveries within project control limits?	X			
15. ICB and CCB results <RL (MQL)?			X	
16. Internal standard areas within project control limits?			X	
<b>Laboratory EDD</b>				
17. Field sample IDs included?		X		17.
18. Laboratory sample IDs included?	X			
19. Date of analysis included?	X			
20. Date of sample preparation included?	X			
21. Samples prepared within holding time?	X			
22. Samples analyzed within holding time?	X			
23. Detection limit and quantitation limit included?	X			
24. Project target limits achieved?	X			
25. No elevated reporting limits?	X			
26. Method references included?	X			
27. Sample matrix included?	X			
28. Sample result units reported correctly?	X			in ug/L
29. Soil/ sediment results corrected for dry-weight?			X	
30. Method blank results <RL (MDL)?	X			
31. Equipment and Trip blank results <RL (MDL)?			X	
32. All COIs included in LCS?	X			
33. LCS recovery within project control limits?	X			
34. MS/MSD recoveries within project control limits?	X			
35. LCS/LCSD RPDs within project control limits?			X	no LCSD
36. MS/MSD RPDs within project control limits?	X			
37. Laboratory duplicate RPDs/Diffs within project control limits?			X	
38. Field duplicate RPDs/Diffs within project control limits?			X	
39. Surrogate recoveries within project control limits?		X		39.
40. Completeness percentage within project limits?	X			

<p>Definitions:  <b>CCB</b> – Continuing Calibration Blank; <b>CCV</b> – Continuing Calibration Verification; <b>COI</b> – Compounds of Interest; <b>DCS</b> – Detectability Check Sample; <b>ICB</b> – Initial Calibration Blank; <b>ICV</b> – Initial Calibration Verification; <b>LCS</b> – Laboratory Control Sample; <b>LCSD</b> – Laboratory Control Sample Duplicate; <b>MDL</b> – Method Detection Limit; <b>MS/MSD</b> – Matrix Spike/Matrix Spike Duplicate; <b>RL</b> – Reporting Limit; <b>RPD</b> – Relative Percent Difference</p>				
<b>COMMENTS</b>				
<p>8. One of two 1L containers received broken – sufficient sample in unbroken container for analysis. Separate Lab Sample IDs (from GCAL) given for MS/MSD on Chain, but GEL unable to enter MS/MSD as separate samples due to software constraints. Instead, MS/MSD given unique GEL Lab QC ID and samples given unique GEL Lab Sample ID and these IDs are used in hardcopy report. For EDD, GCAL updated Sample IDs to match those originally assigned. Client Sample IDs for four samples corrected from those on original Chain-of-Custody due to corrections requested by PBW through GCAL as follows:</p>				
<p><u>CORRECTED SAMPLE ID ON REVISED CHAIN (on original Chain)</u></p>				
<p>ND2MW01-001 (ND2MW01)  NF2MW06-006 (NF2MW06)  ND3MW02-002 (ND3MW02)  SL8MW17-017 (SL8MW17)</p>				
<p>10. Issues noted. All are based on laboratory limits, which do not affect flagging for this site, except:</p>				
<p>One TA failed CCV acceptance criteria with a negative bias on one column for this SDG. (CCVs that bracket site sample for this set are acceptable though.)</p>				
<p>Elemental mercury and alumina cleanup used for sample extracts</p>				
<p>12. GEL laboratory packages do not include quantitation reports, chromatograms, or MDL/DCS documentation. Since all samples are ND and all QC information is available on summary forms, no further action was taken.</p>				
<p>17. Analyses were subcontracted and thus the field Sample ID is the primary Lab ID (from GCAL).</p>				
<p>39. Surrogate low (59%) for SL8MW17-017. All TAs are ND for the sample and were qualified UJ.</p>				

**SET SUMMARY**  
**Laboratory Job No.: 206080433**

2	Number of Field Samples including Field Duplicates (0)
1	Number of Field MS/MSD Pairs
0	Number of Equipment Rinsate Blanks
0	Number of Field Blanks
NA	Number of VOC Trip Blanks
1	Number of Parameters (PCB Congeners)
31	Number of Target Analytes per Sample
62	Total Measurements for Field Samples
31	Number of measurements with no validation qualifier (i.e., "none" in EDD)
31	Number of measurements with UJ flag (for every target analyte due to low surrogate recovery)
0	Number of measurements with J- flag
0	Number of measurements with J flag
0	Number of measurements with J+ flag
0	Number of measurements with U flag
0	Number of measurement with NS flag
0	Number of measurements with R flag
100%	Completeness-to-date on a sample level (percentage of sediment samples with usable data, project goal 90%)
100%	Completeness-to-date on an analyte level (percentage of sediment samples with usable data for a specific analyte, project goal 80%) – PCB congeners

Usability: All data suitable as qualified for the intended use

DATA VALIDATION CHECKLIST (Level III)				
ITEM	Yes	No	NA	Comment Number
Client Name: Pastor, Behling, & Wheeler				Project Number: 1352
Property Location: Gulfco Superfund Site				Project Manager: Eric Pastor
Laboratory: GCAL – Baton Rouge, LA GEL – Charleston, SC				Laboratory Job No.: GCAL - 206080434 GEL - 168603-1
Reviewer: (QAA, L.L.C.) Taryn Scholz				Date Checked: 10/12/06
<b>Chain of Custody (COC) and Sample Receipt at Lab</b>				
1. Signed COCs included and seals used?	x			
2. Date and time of sample collection included?	x			2.
3. All samples listed on the COC analyzed for in accordance with the RI/FS Work Plan?	x			
4. Field QC sample frequency met project requirements?			x	
5. Sample receipt temperature 2-6°C?	x			
6. Samples preserved appropriately?	x			
7. Samples received within 2 days of collection?	x			from GCAL
8. No problems noted?		x		8.
<b>Laboratory Report and Data Package</b>				
9. Signed Case Narrative included?	x			
10. No analytical discrepancies noted in case narrative?		x		10.
11. Elevated reporting limits justified?			x	
12. MDLs reasonable per DCS?			x	12.
13. Calibration data acceptable?	x			ecd8 081406
14. ICV and CCV recoveries within project control limits?	x			ecd8 082106
15. ICB and CCB results <RL (MQL)?			x	
16. Internal standard areas within project control limits?			x	
<b>Laboratory EDD</b>				
17. Field sample IDs included?		x		17.
18. Laboratory sample IDs included?	x			
19. Date of analysis included?	x			
20. Date of sample preparation included?	x			
21. Samples prepared within holding time?	x			
22. Samples analyzed within holding time?	x			
23. Detection limit and quantitation limit included?	x			
24. Project target limits achieved?	x			
25. No elevated reporting limits?		x		25.
26. Method references included?	x			
27. Sample matrix included?	x			
28. Sample result units reported correctly?	x			in ug/kg
29. Soil/ sediment results corrected for dry-weight?	x			
30. Method blank results <RL (MDL)?	x			
31. Equipment and Trip blank results <RL (MDL)?			x	
32. All COIs included in LCS?	x			
33. LCS recovery within project control limits?	x			
34. MS/MSD recoveries within project control limits?	x			
35. LCS/LCSD RPDs within project control limits?			x	no LCSD
36. MS/MSD RPDs within project control limits?	x			
37. Laboratory duplicate RPDs/Diffs within project control limits?			x	
38. Field duplicate RPDs/Diffs within project control limits?	x			both all ND
39. Surrogate recoveries within project control limits?	x			
40. Completeness percentage within project limits?	x			

<p>Definitions:</p> <p><b>CCB</b> – Continuing Calibration Blank; <b>CCV</b> – Continuing Calibration Verification; <b>COI</b> – Compounds of Interest; <b>DCS</b> – Detectability Check Sample; <b>ICB</b> – Initial Calibration Blank; <b>ICV</b> – Initial Calibration Verification; <b>LCS</b> – Laboratory Control Sample; <b>LCSD</b> – Laboratory Control Sample Duplicate; <b>MDL</b> – Method Detection Limit; <b>MS/MSD</b> – Matrix Spike/Matrix Spike Duplicate; <b>RL</b> – Reporting Limit; <b>RPD</b> – Relative Percent Difference</p>			
<b>COMMENTS</b>			
2. Transmittal Chain-of-Custody (from GCAL to GEL) has Collection Date of 8/3/2006 for all samples instead of 8/2/2006 as shown on original Chain-of-Custody (from field to GCAL) and this incorrect date appears on the hardcopy Certificates of Analysis and in the EDD. Correction added to EDD. Holding times still acceptable when calculated with correct date.			
8. Separate Lab Sample IDs (from GCAL) given for MS/MSD on Chain, but GEL unable to enter MS/MSD as separate samples due to software constraints. Instead, MS/MSD given unique GEL Lab QC ID and samples given unique GEL Lab Sample ID and these IDs are used in hardcopy report. For EDD, GCAL updated the Sample IDs to match those assigned by GEL. Note also that there are no samples 01-04 under this Work Order (206080434) as these numbers were originally assigned to surface waters collected on the same date and then later separated into another Work Order (206080820).			
10. Issues noted. All are based on laboratory limits, which do not affect flagging for this site, except:			
Elemental mercury and alumina cleanup used for sample extracts			
12. GEL laboratory packages do not include quantitation reports, chromatograms, or MDL/DCS documentation. Since all samples are ND (both for Aroclors and PCB-Congeners) and all QC information is available on summary forms, no further action was taken.			
17. Analyses were subcontracted and thus the field Sample ID is the primary Lab ID (from GCAL).			
25. Only 15-g used for each sample instead of 30-g. Reporting limits elevated 2x but still below targets.			

**SET SUMMARY**  
**Laboratory Job No.: 206080434**

2	Number of Field Samples including Field Duplicates (1)
1	Number of Field MS/MSD Pairs
0	Number of Equipment Rinsate Blanks
0	Number of Field Blanks
NA	Number of VOC Trip Blanks
1	Number of Parameters (PCB Congeners)
31	Number of Target Analytes per Sample
62	Total Measurements for Field Samples
62	Number of measurements with no validation qualifier (i.e., "none" in EDD)
0	Number of measurements with UJ flag
0	Number of measurements with J- flag
0	Number of measurements with J flag
0	Number of measurements with J+ flag
0	Number of measurements with U flag
0	Number of measurement with NS flag
0	Number of measurements with R flag
100%	Completeness-to-date on a sample level (percentage of all sediment samples, including ICWW, on-site, and pond sediments, with usable data, project goal 90%)
100%	Completeness-to-date on an analyte level (percentage of all sediment samples, including ICWW, on-site, and pond sediments, with usable data for a specific analyte, project goal 80%) – PCB Congeners

Usability: All data suitable for the intended use



**NELAP CERTIFICATE NUMBER 01955**

## **ANALYTICAL RESULTS**

**PERFORMED BY**

**GULF COAST ANALYTICAL LABORATORIES, INC.**

**Report Date** 10/17/2006

**GCAL Report** 206101224



**Deliver To** Pastor, Behling, & Wheeler

**Attn** Jen Pavesi

**Customer** Pastor, Behling, & Wheeler

**Project** Gulfco Marine Maintenance Site

## CASE NARRATIVE

**Client:** Pastor, Behling, & Wheeler      **Report:** 206101224

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

### METALS

In the SW-846 6010B Dissolved analysis, a chemical or physical interference necessitated a dilution for samples 20610122401 (FWPSW01-001), 20610122402 (FWPSW01-001 MS) and 20610122403 (FWPSW01-001 MSD). This is reflected in the elevated reporting limits.

In the SW-846 6010B analysis, a chemical or physical interference necessitated a dilution for samples 20610122401 (FWPSW01-001), 20610122402 (FWPSW01-001 MS), 20610122403 (FWPSW01-001 MSD), 20610122404 (FWPSW02-002) and 20610122405 (FWPSW03-003). This is reflected in the elevated reporting limits.

**000002**

# Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

## Common Abbreviations Utilized in this Report

<b>ND</b>	Indicates the result was Not Detected at the specified RDL
<b>DO</b>	Indicates the result was Diluted Out
<b>MI</b>	Indicates the result was subject to Matrix Interference
<b>TNTC</b>	Indicates the result was Too Numerous To Count
<b>SUBC</b>	Indicates the analysis was Sub-Contracted
<b>FLD</b>	Indicates the analysis was performed in the Field
<b>PQL</b>	Practical Quantitation Limit
<b>MDL</b>	Method Detection Limit
<b>RDL</b>	Reporting Detection Limit
<b>00:00</b>	Reported as a time equivalent to 12:00 AM

## Reporting Flags Utilized in this Report

<b>J</b>	Indicates an estimated value
<b>U</b>	Indicates the compound was analyzed for but not detected
<b>B</b> (ORGANICS)	Indicates the analyte was detected in the associated Method Blank
<b>B</b> (INORGANICS)	Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with ISO Guide 25 and NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.



CURTIS EKKER  
DATA VALIDATION MANAGER  
GCAL REPORT 206101224

THIS REPORT CONTAINS 118 PAGES.

000003

## Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20610122401	FWPSW01-001	Water	08/02/2006 08:45	08/04/2006 09:50
20610122402	FWPSW01-001 MS	Water	08/02/2006 08:45	08/04/2006 09:50
20610122403	FWPSW01-001 MSD	Water	08/02/2006 08:45	08/04/2006 09:50
20610122404	FWPSW02-002	Water	08/02/2006 09:40	08/04/2006 09:50
20610122405	FWPSW03-003	Water	08/02/2006 10:00	08/04/2006 09:50
20610122406	SPSW01-001	Water	08/02/2006 10:25	08/04/2006 09:50
20610122407	SPSW02-002	Water	08/02/2006 10:45	08/04/2006 09:50
20610122408	SPSW03-003	Water	08/02/2006 11:30	08/04/2006 09:50
20610122409	SP-004-FB	Water	08/02/2006 11:45	08/04/2006 09:50

U.S. EPA - CLP  
COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: GCAL Contract: \_\_\_\_\_  
Lab Code: LA024 Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: 206101224  
SOW No.: \_\_\_\_\_

EPA Sample No.	Lab Sample ID.
FWPSW01-001	20610122401
FWPSW01-001 MS	20610122402
FWPSW01-001 MSD	20610122403
FWPSW02-002	20610122404
FWPSW03-003	20610122405
SPSW01-001	20610122406
SPSW02-002	20610122407
SPSW03-003	20610122408
SP-004-FB	20610122409
FWPSW01-001	20610122401
FWPSW01-001 MS	20610122402
FWPSW01-001 MSD	20610122403
FWPSW02-002	20610122404
FWPSW03-003	20610122405
SPSW01-001	20610122406
SPSW02-002	20610122407
SPSW03-003	20610122408

Were ICP interelement corrections applied ? Yes / No YES  
Were ICP background corrections applied ? Yes / No YES  
If yes-were raw data generated before application of background corrections ? Yes / No NO

COVER PAGE - IN

**000005**

## INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: FWPSW01-001  
 Lab Code: LA024 Case No.: Contract:  
 Matrix: ( soil / water ) Water SAS No.: SDG No.: 206101224  
 Level: ( low / med ) % Solids: Lab Sample ID: 20610122401  
 Date Received: 08/04/06 Time: 0950 Date Collected: 08/02/06 Time: 0845

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Antimony	0.12	mg/L	U	0.0050	0.12	SW-846 6010B	P
Chromium	0.020	mg/L	U	0.0018	0.020	SW-846 6010B	P
Thallium	0.0070	mg/L	B	0.0026	0.040	SW-846 6010B	P
Vanadium	0.040	mg/L	U	0.0014	0.040	SW-846 6010B	P

FORM I - IN

**000006**

## INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: FWPSW01-001 MS  
 Lab Code: LA024 Case No.: Contract:  
 Matrix: ( soil / water ) Water SAS No.: SDG No.: 206101224  
 Level: ( low / med ) % Solids: Lab Sample ID: 20610122402  
 Date Received: 08/04/06 Time: 0950 Date Collected: 08/02/06 Time: 0845

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Antimony	0.55	mg/L		0.0050	0.12	SW-846 6010B	P
Chromium	0.44	mg/L		0.0018	0.020	SW-846 6010B	P
Thallium	0.49	mg/L		0.0026	0.040	SW-846 6010B	P
Vanadium	0.51	mg/L		0.0014	0.040	SW-846 6010B	P

FORM I - IN

**000007**

## INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL                              Sample ID: FWPSW01-001 MSD  
 Lab Code: LA024                              Case No.: \_\_\_\_\_  
 Matrix: ( soil / water ) Water              Contract: \_\_\_\_\_  
 Level: ( low / med )                        SAS No.: \_\_\_\_\_ SDG No.: 206101224  
 Date Received: 08/04/06                    Time: 0950                              Lab Sample ID: 20610122403  
 Date Collected: 08/02/06                   Time: 0845

<b>Analyte</b>	<b>Concentration</b>	<b>Units</b>	<b>C</b>	<b>MDL</b>	<b>PQL</b>	<b>Method</b>	<b>Type</b>
Antimony	0.56	mg/L		0.0050	0.12	SW-846 6010B	P
Chromium	0.46	mg/L		0.0018	0.020	SW-846 6010B	P
Thallium	0.50	mg/L		0.0026	0.040	SW-846 6010B	P
Vanadium	0.53	mg/L		0.0014	0.040	SW-846 6010B	P

FORM I - IN

000008

## INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL  
 Lab Code: LA024 Case No.:  
 Matrix: ( soil / water ) Water  
 Level: ( low / med ) % Solids:  
 Date Received: 08/04/06 Time: 0950  
 Sample ID: FWPSW02-002  
 Contract:  
 SAS No.: SDG No.: 206101224  
 Lab Sample ID: 20610122404  
 Date Collected: 08/02/06 Time: 0940

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Antimony	0.12	mg/L	U	0.0050	0.12	SW-846 6010B	P
Chromium	0.020	mg/L	U	0.0018	0.020	SW-846 6010B	P
Thallium	0.011	mg/L	B	0.0026	0.040	SW-846 6010B	P
Vanadium	0.0051	mg/L	B	0.0014	0.040	SW-846 6010B	P

FORM I - IN

000009

## INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: FWPSW03-003  
 Lab Code: LA024 Case No.: Contract:  
 Matrix: ( soil / water ) Water SAS No.: SDG No.: 206101224  
 Level: ( low / med ) % Solids: Lab Sample ID: 20610122405  
 Date Received: 08/04/06 Time: 0950 Date Collected: 08/02/06 Time: 1000

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Antimony	0.12	mg/L	U	0.0050	0.12	SW-846 6010B	P
Chromium	0.020	mg/L	U	0.0018	0.020	SW-846 6010B	P
Thallium	0.0087	mg/L	B	0.0026	0.040	SW-846 6010B	P
Vanadium	0.0043	mg/L	B	0.0014	0.040	SW-846 6010B	P

FORM I - IN

000010

## INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL  
 Lab Code: LA024 Case No.: \_\_\_\_\_  
 Matrix: ( soil / water ) Water  
 Level: ( low / med ) % Solids: \_\_\_\_\_  
 Date Received: 08/04/06 Time: 0950  
 Sample ID: SPSW01-001  
 Contract: \_\_\_\_\_  
 SAS No.: \_\_\_\_\_ SDG No.: 206101224  
 Lab Sample ID: 20610122406  
 Date Collected: 08/02/06 Time: 1025

<b>Analyte</b>	<b>Concentration</b>	<b>Units</b>	<b>C</b>	<b>MDL</b>	<b>PQL</b>	<b>Method</b>	<b>Type</b>
Antimony	0.060	mg/L	U	0.0025	0.060	SW-846 6010B	P
Chromium	0.010	mg/L	U	0.00090	0.010	SW-846 6010B	P
Thallium	0.0055	mg/L	B	0.0013	0.020	SW-846 6010B	P
Vanadium	0.020	mg/L	U	0.00070	0.020	SW-846 6010B	P

FORM I - IN

**000011**

## INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: SPSW02-002  
 Lab Code: LA024 Case No.: \_\_\_\_\_ Contract: \_\_\_\_\_  
 Matrix: ( soil / water ) Water SAS No.: \_\_\_\_\_ SDG No.: 206101224  
 Level: ( low / med ) % Solids: \_\_\_\_\_ Lab Sample ID: 20610122407  
 Date Received: 08/04/06 Time: 0950 Date Collected: 08/02/06 Time: 1045

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Antimony	0.060	mg/L	U	0.0025	0.060	SW-846 6010B	P
Chromium	0.0015	mg/L	B	0.00090	0.010	SW-846 6010B	P
Thallium	0.0045	mg/L	B	0.0013	0.020	SW-846 6010B	P
Vanadium	0.0035	mg/L	B	0.00070	0.020	SW-846 6010B	P

FORM I - IN

000012

## INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: SPSW03-003  
 Lab Code: LA024 Case No.: Contract:  
 Matrix: ( soil / water ) Water SAS No.: SDG No.: 206101224  
 Level: ( low / med ) % Solids: Lab Sample ID: 20610122408  
 Date Received: 08/04/06 Time: 0950 Date Collected: 08/02/06 Time: 1130

<b>Analyte</b>	<b>Concentration</b>	<b>Units</b>	<b>C</b>	<b>MDL</b>	<b>PQL</b>	<b>Method</b>	<b>Type</b>
Antimony	0.060	mg/L	U	0.0025	0.060	SW-846 6010B	P
Chromium	0.010	mg/L	U	0.00090	0.010	SW-846 6010B	P
Thallium	0.0062	mg/L	B	0.0013	0.020	SW-846 6010B	P
Vanadium	0.020	mg/L	U	0.00070	0.020	SW-846 6010B	P

FORM I - IN

000013

## INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL  
 Lab Code: LA024 Case No.: \_\_\_\_\_  
 Matrix: ( soil / water ) Water  
 Level: ( low / med ) % Solids:  
 Date Received: 08/04/06 Time: 0950  
 Sample ID: SP-004-FB  
 Contract: \_\_\_\_\_  
 SAS No.: \_\_\_\_\_ SDG No.: 206101224  
 Lab Sample ID: 20610122409  
 Date Collected: 08/02/06 Time: 1145

<b>Analyte</b>	<b>Concentration</b>	<b>Units</b>	<b>C</b>	<b>MDL</b>	<b>PQL</b>	<b>Method</b>	<b>Type</b>
Antimony	0.060	mg/L	U	0.0025	0.060	SW-846 6010B	P
Chromium	0.010	mg/L	U	0.00090	0.010	SW-846 6010B	P
Thallium	0.0030	mg/L	B	0.0013	0.020	SW-846 6010B	P
Vanadium	0.020	mg/L	U	0.00070	0.020	SW-846 6010B	P

FORM I - IN

000014

## INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL  
 Lab Code: LA024 Case No.: \_\_\_\_\_  
 Matrix: ( soil / water ) Water  
 Level: ( low / med ) % Solids: \_\_\_\_\_  
 Date Received: 08/04/06 Time: 0950  
 Sample ID: FWPSW01-001  
 Contract: \_\_\_\_\_  
 SAS No.: \_\_\_\_\_ SDG No.: 206101224  
 Lab Sample ID: 20610122401  
 Date Collected: 08/02/06 Time: 0845

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Antimony (Dissolved)	0.12	mg/L	U	0.0050	0.12	SW-846 6010B Dissolved	P
Chromium (Dissolved)	0.020	mg/L	U	0.0018	0.020	SW-846 6010B Dissolved	P
Thallium (Dissolved)	0.0061	mg/L	B	0.0018	0.040	SW-846 6010B Dissolved	P
Vanadium (Dissolved)	0.040	mg/L	U	0.0014	0.040	SW-846 6010B Dissolved	P

FORM I - IN

000015

## INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL  
 Lab Code: LA024 Case No.:  
 Matrix: ( soil / water ) Water  
 Level: ( low / med ) % Solids:  
 Date Received: 08/04/06 Time: 0950  
 Sample ID: FWPSW01-001 MS  
 Contract:  
 SAS No.: SDG No.: 206101224  
 Lab Sample ID: 20610122402  
 Date Collected: 08/02/06 Time: 0845

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Antimony (Dissolved)	0.58	mg/L		0.0050	0.12	SW-846 6010B Dissolved	P
Chromium (Dissolved)	0.46	mg/L		0.0018	0.020	SW-846 6010B Dissolved	P
Thallium (Dissolved)	0.52	mg/L		0.0018	0.040	SW-846 6010B Dissolved	P
Vanadium (Dissolved)	0.54	mg/L		0.0014	0.040	SW-846 6010B Dissolved	P

FORM I - IN

000016

## INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL  
 Lab Code: LA024 Case No.: \_\_\_\_\_  
 Matrix: ( soil / water ) Water  
 Level: ( low / med ) \_\_\_\_\_ % Solids: \_\_\_\_\_  
 Date Received: 08/04/06 Time: 0950  
 Sample ID: FWPSW01-001 MSD  
 Contract: \_\_\_\_\_  
 SAS No.: \_\_\_\_\_ SDG No.: 206101224  
 Lab Sample ID: 20610122403  
 Date Collected: 08/02/06 Time: 0845

<b>Analyte</b>	<b>Concentration</b>	<b>Units</b>	<b>C</b>	<b>MDL</b>	<b>PQL</b>	<b>Method</b>	<b>Type</b>
Antimony (Dissolved)	0.57	mg/L		0.0050	0.12	SW-846 6010B Dissolved	P
Chromium (Dissolved)	0.45	mg/L		0.0018	0.020	SW-846 6010B Dissolved	P
Thallium (Dissolved)	0.51	mg/L		0.0018	0.040	SW-846 6010B Dissolved	P
Vanadium (Dissolved)	0.53	mg/L		0.0014	0.040	SW-846 6010B Dissolved	P

FORM I - IN

000017

## INORGANIC ANALYSIS DATA SHEET

Lab Name:	GCAL	Sample ID:	FWPSW02-002				
Lab Code:	LA024	Case No.:	Contract:				
Matrix:	( soil / water ) Water	SAS No.:	SDG No.:	206101224			
Level:	( low / med )	% Solids:	Lab Sample ID:	20610122404			
Date Received:	08/04/06	Time:	0950	Date Collected:	08/02/06	Time:	0940

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Antimony (Dissolved)	0.12	mg/L	U	0.0050	0.12	SW-846 6010B Dissolved	P
Chromium (Dissolved)	0.020	mg/L	U	0.0018	0.020	SW-846 6010B Dissolved	P
Thallium (Dissolved)	0.010	mg/L	B	0.0018	0.040	SW-846 6010B Dissolved	P
Vanadium (Dissolved)	0.040	mg/L	U	0.0014	0.040	SW-846 6010B Dissolved	P

## INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL  
 Lab Code: LA024 Case No.: \_\_\_\_\_  
 Matrix: ( soil / water ) Water  
 Level: ( low / med ) % Solids: \_\_\_\_\_  
 Date Received: 08/04/06 Time: 0950  
 Sample ID: FWPSW03-003  
 Contract: \_\_\_\_\_  
 SAS No.: \_\_\_\_\_ SDG No.: 206101224  
 Lab Sample ID: 20610122405  
 Date Collected: 08/02/06 Time: 1000

<b>Analyte</b>	<b>Concentration</b>	<b>Units</b>	<b>C</b>	<b>MDL</b>	<b>PQL</b>	<b>Method</b>	<b>Type</b>
Antimony (Dissolved)	0.12	mg/L	U	0.0050	0.12	SW-846 6010B Dissolved	P
Chromium (Dissolved)	0.020	mg/L	U	0.0018	0.020	SW-846 6010B Dissolved	P
Thallium (Dissolved)	0.0088	mg/L	B	0.0018	0.040	SW-846 6010B Dissolved	P
Vanadium (Dissolved)	0.0021	mg/L	B	0.0014	0.040	SW-846 6010B Dissolved	P

FORM I - IN

**000019**

## INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL  
 Lab Code: LA024 Case No.: \_\_\_\_\_  
 Matrix: ( soil / water ) Water  
 Level: ( low / med ) % Solids: \_\_\_\_\_  
 Date Received: 08/04/06 Time: 0950  
 Sample ID: SPSW01-001  
 Contract: \_\_\_\_\_  
 SAS No.: \_\_\_\_\_ SDG No.: 206101224  
 Lab Sample ID: 20610122406  
 Date Collected: 08/02/06 Time: 1025

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Antimony (Dissolved)	0.060	mg/L	U	0.0025	0.060	SW-846 6010B Dissolved	P
Chromium (Dissolved)	0.010	mg/L	U	0.00090	0.010	SW-846 6010B Dissolved	P
Thallium (Dissolved)	0.0065	mg/L	B	0.00089	0.020	SW-846 6010B Dissolved	P
Vanadium (Dissolved)	0.020	mg/L	U	0.00070	0.020	SW-846 6010B Dissolved	P

FORM I - IN

000020

## INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL  
 Lab Code: LA024 Case No.: \_\_\_\_\_  
 Matrix: ( soil / water ) Water  
 Level: ( low / med ) % Solids:  
 Date Received: 08/04/06 Time: 0950  
 Sample ID: SPSW02-002  
 Contract: \_\_\_\_\_  
 SAS No.: \_\_\_\_\_ SDG No.: 206101224  
 Lab Sample ID: 20610122407  
 Date Collected: 08/02/06 Time: 1045

<b>Analyte</b>	<b>Concentration</b>	<b>Units</b>	<b>C</b>	<b>MDL</b>	<b>PQL</b>	<b>Method</b>	<b>Type</b>
Antimony (Dissolved)	0.060	mg/L	U	0.0025	0.060	SW-846 6010B Dissolved	P
Chromium (Dissolved)	0.010	mg/L	U	0.00090	0.010	SW-846 6010B Dissolved	P
Thallium (Dissolved)	0.0051	mg/L	B	0.00089	0.020	SW-846 6010B Dissolved	P
Vanadium (Dissolved)	0.020	mg/L	U	0.00070	0.020	SW-846 6010B Dissolved	P

FORM I - IN

000021

## INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL  
 Lab Code: LA024 Case No.: \_\_\_\_\_  
 Matrix: ( soil / water ) Water  
 Level: ( low / med ) % Solids: \_\_\_\_\_  
 Date Received: 08/04/06 Time: 0950  
 Sample ID: SPSW03-003  
 Contract: \_\_\_\_\_  
 SAS No.: \_\_\_\_\_ SDG No.: 206101224  
 Lab Sample ID: 20610122408  
 Date Collected: 08/02/06 Time: 1130

<b>Analyte</b>	<b>Concentration</b>	<b>Units</b>	<b>C</b>	<b>MDL</b>	<b>PQL</b>	<b>Method</b>	<b>Type</b>
Antimony (Dissolved)	0.060	mg/L	U	0.0025	0.060	SW-846 6010B Dissolved	P
Chromium (Dissolved)	0.010	mg/L	U	0.00090	0.010	SW-846 6010B Dissolved	P
Thallium (Dissolved)	0.0067	mg/L	B	0.00089	0.020	SW-846 6010B Dissolved	P
Vanadium (Dissolved)	0.020	mg/L	U	0.00070	0.020	SW-846 6010B Dissolved	P

FORM I - IN

**000022**

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL	Contract:		
Lab Code: LA024	Case No.: _____	SAS No.: _____	SDG No.: 206101224
Calibration Source: 163-16-1 CPI/EXAXOL	Instrument ID: ICP6	ICAL ID: 1	
	Date Analyzed: 10/13/06	Time: 0950	

**INITIAL CALIBRATION VERIFICATION**

Analyte	True	Found	CAL %R	Units	Method	Type
Aluminum	10.0	9.88	99	mg/L	SW-846 6010B	P
Antimony	1.00	1.00	100	mg/L	SW-846 6010B	P
Arsenic	1.00	0.990	99	mg/L	SW-846 6010B	P
Barium	1.00	1.02	102	mg/L	SW-846 6010B	P
Beryllium	1.00	1.00	100	mg/L	SW-846 6010B	P
Boron	5.00	5.12	102	mg/L	SW-846 6010B	P
Cadmium	1.00	0.980	98	mg/L	SW-846 6010B	P
Calcium	10.0	10.1	101	mg/L	SW-846 6010B	P
Chromium	1.00	1.00	100	mg/L	SW-846 6010B	P
Cobalt	1.00	0.980	98	mg/L	SW-846 6010B	P
Copper	1.00	0.970	97	mg/L	SW-846 6010B	P
Iron	10.0	10.3	103	mg/L	SW-846 6010B	P
Lead	1.00	0.990	99	mg/L	SW-846 6010B	P
Lithium	1.00	0.990	99	mg/L	SW-846 6010B	P
Magnesium	10.0	10.1	101	mg/L	SW-846 6010B	P
Manganese	1.00	0.990	99	mg/L	SW-846 6010B	P
Molybdenum	1.00	0.960	96	mg/L	SW-846 6010B	P
Nickel	1.00	0.990	99	mg/L	SW-846 6010B	P
Potassium	10.0	10.2	102	mg/L	SW-846 6010B	P
Selenium	1.00	0.990	99	mg/L	SW-846 6010B	P
Silver	1.00	1.02	102	mg/L	SW-846 6010B	P
Sodium	10.0	9.93	99	mg/L	SW-846 6010B	P
Strontium	1.00	0.970	97	mg/L	SW-846 6010B	P
Thallium	1.00	0.990	99	mg/L	SW-846 6010B	P
Tin	1.00	1.02	102	mg/L	SW-846 6010B	P
Titanium	1.00	0.980	98	mg/L	SW-846 6010B	P
Vanadium	1.00	0.990	99	mg/L	SW-846 6010B	P
Zinc	1.00	0.970	97	mg/L	SW-846 6010B	P

ICV CONTROL LIMITS EPA 6010B = 90-110 EPA 200.7 = 95-105

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract: \_\_\_\_\_  
 Lab Code: LA024 Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: 206101224  
 Calibration Source: 163-18-1 INORGANIC VENTURES Instrument ID: ICP6 ICAL ID: 1  
 Date Analyzed: 10/13/06 Time: 1011

**CRDL STANDARD**

<b>Analyte</b>	<b>True</b>	<b>Found</b>	<b>CAL %R</b>	<b>Units</b>	<b>Method</b>	<b>Type</b>
Aluminum	0.200	0.220	108	mg/L	SW-846 6010B	P
Antimony	0.0600	0.0680	113	mg/L	SW-846 6010B	P
Arsenic	0.0100	0.0110	109	mg/L	SW-846 6010B	P
Barium	0.0100	0.0110	107	mg/L	SW-846 6010B	P
Beryllium	0.00500	0.00550	110	mg/L	SW-846 6010B	P
Boron	0.500	0.570	113	mg/L	SW-846 6010B	P
Cadmium	0.00500	0.00510	102	mg/L	SW-846 6010B	P
Calcium	0.100	0.130	130	mg/L	SW-846 6010B	P
Chromium	0.0100	0.00980	98	mg/L	SW-846 6010B	P
Cobalt	0.0100	0.0100	104	mg/L	SW-846 6010B	P
Copper	0.0100	0.0100	102	mg/L	SW-846 6010B	P
Iron	0.100	0.0900	90	mg/L	SW-846 6010B	P
Lead	0.0150	0.0160	109	mg/L	SW-846 6010B	P
Lithium	0.0500	0.0520	104	mg/L	SW-846 6010B	P
Magnesium	0.100	0.120	116	mg/L	SW-846 6010B	P
Manganese	0.0150	0.0160	109	mg/L	SW-846 6010B	P
Molybdenum	0.0500	0.0510	102	mg/L	SW-846 6010B	P
Nickel	0.0400	0.0420	105	mg/L	SW-846 6010B	P
Potassium	0.500	0.550	109	mg/L	SW-846 6010B	P
Selenium	0.0400	0.0400	101	mg/L	SW-846 6010B	P
Silver	0.0100	0.0110	111	mg/L	SW-846 6010B	P
Sodium	1.00	1.01	101	mg/L	SW-846 6010B	P
Strontium	0.0500	0.0510	103	mg/L	SW-846 6010B	P
Thallium	0.0100	0.0110	109	mg/L	SW-846 6010B	P
Tin	0.100	0.110	105	mg/L	SW-846 6010B	P
Titanium	0.100	0.110	106	mg/L	SW-846 6010B	P
Vanadium	0.0200	0.0210	107	mg/L	SW-846 6010B	P
Zinc	0.0200	0.0230	114	mg/L	SW-846 6010B	P

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL	Contract:		
Lab Code: LA024	Case No.: _____	SAS No.: _____	SDG No.: 206101224
Calibration Source: 163-19-1 INORGANIC VENTURES	Instrument ID: ICP6	ICAL ID: 1	
	Date Analyzed: 10/13/06	Time: 1022	

**CRDL STANDARD**

Analyte	True	Found	CAL %R	Units	Method	Type
Barium	0.00500	0.00510	101	mg/L	SW-846 6010B	P
Cadmium	0.00100	0.00100	100	mg/L	SW-846 6010B	P
Chromium	0.00500	0.00370	74	mg/L	SW-846 6010B	P
Cobalt	0.00100	0.000950	95	mg/L	SW-846 6010B	P
Copper	0.00600	0.00450	75	mg/L	SW-846 6010B	P
Iron	0.0500	0.0270	54	mg/L	SW-846 6010B	P
Lead	0.00300	0.00410	137	mg/L	SW-846 6010B	P
Nickel	0.00500	0.00470	93	mg/L	SW-846 6010B	P
Selenium	0.0300	0.0290	98	mg/L	SW-846 6010B	P
Zinc	0.0100	0.00870	87	mg/L	SW-846 6010B	P

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL	Contract:		
Lab Code: LA024	Case No.: _____	SAS No.: _____	SDG No.: 206101224
Calibration Source: 163-18-7 INORGANIC VENTURES	Instrument ID: ICP6	ICAL ID: 1	
	Date Analyzed: 10/13/06	Time: 1054	

**CONTINUING CALIBRATION VERIFICATION**

Analyte	True	Found	CAL %R	Units	Method	Type
Aluminum	5.00	5.18	104	mg/L	SW-846 6010B	P
Antimony	0.500	0.510	101	mg/L	SW-846 6010B	P
Arsenic	0.500	0.530	106	mg/L	SW-846 6010B	P
Barium	0.500	0.510	101	mg/L	SW-846 6010B	P
Beryllium	0.500	0.520	104	mg/L	SW-846 6010B	P
Boron	2.50	2.52	101	mg/L	SW-846 6010B	P
Cadmium	0.500	0.500	101	mg/L	SW-846 6010B	P
Calcium	5.00	5.18	104	mg/L	SW-846 6010B	P
Chromium	0.500	0.510	102	mg/L	SW-846 6010B	P
Cobalt	0.500	0.520	103	mg/L	SW-846 6010B	P
Copper	0.500	0.510	102	mg/L	SW-846 6010B	P
Iron	5.00	5.23	105	mg/L	SW-846 6010B	P
Lead	0.500	0.520	103	mg/L	SW-846 6010B	P
Lithium	0.500	0.520	104	mg/L	SW-846 6010B	P
Magnesium	5.00	5.22	104	mg/L	SW-846 6010B	P
Manganese	0.500	0.510	102	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.510	102	mg/L	SW-846 6010B	P
Nickel	0.500	0.510	103	mg/L	SW-846 6010B	P
Potassium	10.0	10.5	105	mg/L	SW-846 6010B	P
Selenium	0.500	0.520	104	mg/L	SW-846 6010B	P
Silicon	0.500	0.510	103	mg/L	SW-846 6010B	P
Silver	0.500	0.520	104	mg/L	SW-846 6010B	P
Sodium	20.0	20.7	104	mg/L	SW-846 6010B	P
Strontium	0.500	0.510	101	mg/L	SW-846 6010B	P
Thallium	0.500	0.520	103	mg/L	SW-846 6010B	P
Tin	0.500	0.500	101	mg/L	SW-846 6010B	P
Titanium	0.500	0.510	102	mg/L	SW-846 6010B	P
Vanadium	0.500	0.500	101	mg/L	SW-846 6010B	P
Zinc	0.500	0.510	102	mg/L	SW-846 6010B	P
Zirconium	0.500	0.510	101	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL	Contract:		
Lab Code: LA024	Case No.: _____	SAS No.: _____	SDG No.: 206101224
Calibration Source: 163-18-7 INORGANIC VENTURES	Instrument ID: ICP6	ICAL ID: 1	
	Date Analyzed: 10/13/06	Time: 1223	

**CONTINUING CALIBRATION VERIFICATION**

Analyte	True	Found	CAL %R	Units	Method	Type
Aluminum	5.00	4.73	95	mg/L	SW-846 6010B	P
Antimony	0.500	0.500	100	mg/L	SW-846 6010B	P
Arsenic	0.500	0.540	109	mg/L	SW-846 6010B	P
Barium	0.500	0.520	103	mg/L	SW-846 6010B	P
Beryllium	0.500	0.510	101	mg/L	SW-846 6010B	P
Boron	2.50	2.59	104	mg/L	SW-846 6010B	P
Cadmium	0.500	0.520	104	mg/L	SW-846 6010B	P
Calcium	5.00	5.27	105	mg/L	SW-846 6010B	P
Chromium	0.500	0.510	102	mg/L	SW-846 6010B	P
Cobalt	0.500	0.520	103	mg/L	SW-846 6010B	P
Copper	0.500	0.500	100	mg/L	SW-846 6010B	P
Iron	5.00	5.16	103	mg/L	SW-846 6010B	P
Lead	0.500	0.510	103	mg/L	SW-846 6010B	P
Lithium	0.500	0.470	95	mg/L	SW-846 6010B	P
Magnesium	5.00	4.96	99	mg/L	SW-846 6010B	P
Manganese	0.500	0.520	103	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.500	101	mg/L	SW-846 6010B	P
Nickel	0.500	0.510	103	mg/L	SW-846 6010B	P
Potassium	10.0	9.62	96	mg/L	SW-846 6010B	P
Selenium	0.500	0.540	108	mg/L	SW-846 6010B	P
Silicon	0.500	0.440	89	mg/L	SW-846 6010B	P
Silver	0.500	0.510	101	mg/L	SW-846 6010B	P
Sodium	20.0	19.3	96	mg/L	SW-846 6010B	P
Strontium	0.500	0.490	99	mg/L	SW-846 6010B	P
Thallium	0.500	0.520	103	mg/L	SW-846 6010B	P
Tin	0.500	0.510	103	mg/L	SW-846 6010B	P
Titanium	0.500	0.510	102	mg/L	SW-846 6010B	P
Vanadium	0.500	0.510	101	mg/L	SW-846 6010B	P
Zinc	0.500	0.500	101	mg/L	SW-846 6010B	P
Zirconium	0.500	0.500	101	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL	Contract:		
Lab Code: LA024	Case No.: _____	SAS No.: _____	SDG No.: 206101224
Calibration Source: 163-18-7 INORGANIC VENTURES	Instrument ID: ICP6	ICAL ID: 1	
	Date Analyzed: 10/13/06	Time: 1347	

**CONTINUING CALIBRATION VERIFICATION**

Analyte	True	Found	CAL %R	Units	Method	Type
Aluminum	5.00	4.66	93	mg/L	SW-846 6010B	P
Antimony	0.500	0.490	97	mg/L	SW-846 6010B	P
Arsenic	0.500	0.530	107	mg/L	SW-846 6010B	P
Barium	0.500	0.500	100	mg/L	SW-846 6010B	P
Beryllium	0.500	0.490	98	mg/L	SW-846 6010B	P
Boron	2.50	2.50	100	mg/L	SW-846 6010B	P
Cadmium	0.500	0.500	100	mg/L	SW-846 6010B	P
Calcium	5.00	5.15	103	mg/L	SW-846 6010B	P
Chromium	0.500	0.490	99	mg/L	SW-846 6010B	P
Cobalt	0.500	0.500	100	mg/L	SW-846 6010B	P
Copper	0.500	0.490	97	mg/L	SW-846 6010B	P
Iron	5.00	5.05	101	mg/L	SW-846 6010B	P
Lead	0.500	0.500	100	mg/L	SW-846 6010B	P
Lithium	0.500	0.470	94	mg/L	SW-846 6010B	P
Magnesium	5.00	4.92	98	mg/L	SW-846 6010B	P
Manganese	0.500	0.500	100	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.490	98	mg/L	SW-846 6010B	P
Nickel	0.500	0.500	99	mg/L	SW-846 6010B	P
Potassium	10.0	9.55	96	mg/L	SW-846 6010B	P
Selenium	0.500	0.520	105	mg/L	SW-846 6010B	P
Silicon	0.500	0.440	88	mg/L	SW-846 6010B	P
Silver	0.500	0.490	98	mg/L	SW-846 6010B	P
Sodium	20.0	19.3	97	mg/L	SW-846 6010B	P
Strontium	0.500	0.490	98	mg/L	SW-846 6010B	P
Thallium	0.500	0.500	101	mg/L	SW-846 6010B	P
Tin	0.500	0.500	100	mg/L	SW-846 6010B	P
Titanium	0.500	0.490	98	mg/L	SW-846 6010B	P
Vanadium	0.500	0.490	98	mg/L	SW-846 6010B	P
Zinc	0.500	0.490	98	mg/L	SW-846 6010B	P
Zirconium	0.500	0.490	97	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL	Contract:		
Lab Code: LA024	Case No.: _____	SAS No.: _____	SDG No.: 206101224
Calibration Source: 163-18-7 INORGANIC VENTURES	Instrument ID: ICP6	ICAL ID: 1	
	Date Analyzed: 10/13/06	Time: 1507	

**CONTINUING CALIBRATION VERIFICATION**

Analyte	True	Found	CAL %R	Units	Method	Type
Aluminum	5.00	4.97	99	mg/L	SW-846 6010B	P
Antimony	0.500	0.510	101	mg/L	SW-846 6010B	P
Arsenic	0.500	0.550	110	mg/L	SW-846 6010B	P
Barium	0.500	0.520	104	mg/L	SW-846 6010B	P
Beryllium	0.500	0.520	104	mg/L	SW-846 6010B	P
Boron	2.50	2.60	104	mg/L	SW-846 6010B	P
Cadmium	0.500	0.520	104	mg/L	SW-846 6010B	P
Calcium	5.00	5.26	105	mg/L	SW-846 6010B	P
Chromium	0.500	0.520	104	mg/L	SW-846 6010B	P
Cobalt	0.500	0.520	105	mg/L	SW-846 6010B	P
Copper	0.500	0.510	101	mg/L	SW-846 6010B	P
Iron	5.00	5.15	103	mg/L	SW-846 6010B	P
Lead	0.500	0.520	105	mg/L	SW-846 6010B	P
Lithium	0.500	0.500	99	mg/L	SW-846 6010B	P
Magnesium	5.00	5.14	103	mg/L	SW-846 6010B	P
Manganese	0.500	0.520	104	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.510	102	mg/L	SW-846 6010B	P
Nickel	0.500	0.520	104	mg/L	SW-846 6010B	P
Potassium	10.0	10.0	100	mg/L	SW-846 6010B	P
Selenium	0.500	0.520	105	mg/L	SW-846 6010B	P
Silicon	0.500	0.480	97	mg/L	SW-846 6010B	P
Silver	0.500	0.520	104	mg/L	SW-846 6010B	P
Sodium	20.0	20.2	101	mg/L	SW-846 6010B	P
Strontium	0.500	0.510	101	mg/L	SW-846 6010B	P
Thallium	0.500	0.520	105	mg/L	SW-846 6010B	P
Tin	0.500	0.520	105	mg/L	SW-846 6010B	P
Titanium	0.500	0.520	104	mg/L	SW-846 6010B	P
Vanadium	0.500	0.520	104	mg/L	SW-846 6010B	P
Zinc	0.500	0.520	103	mg/L	SW-846 6010B	P
Zirconium	0.500	0.510	102	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL	Contract:		
Lab Code: LA024	Case No.: _____	SAS No.: _____	SDG No.: 206101224
Calibration Source: 163-18-7 INORGANIC VENTURES	Instrument ID: ICP6	ICAL ID: 1	
	Date Analyzed: 10/13/06	Time: 1629	

**CONTINUING CALIBRATION VERIFICATION**

Analyte	True	Found	CAL %R	Units	Method	Type
Aluminum	5.00	4.80	96	mg/L	SW-846 6010B	P
Antimony	0.500	0.490	99	mg/L	SW-846 6010B	P
Arsenic	0.500	0.540	107	mg/L	SW-846 6010B	P
Barium	0.500	0.510	102	mg/L	SW-846 6010B	P
Beryllium	0.500	0.500	100	mg/L	SW-846 6010B	P
Boron	2.50	2.56	102	mg/L	SW-846 6010B	P
Cadmium	0.500	0.510	103	mg/L	SW-846 6010B	P
Calcium	5.00	5.10	102	mg/L	SW-846 6010B	P
Chromium	0.500	0.510	102	mg/L	SW-846 6010B	P
Cobalt	0.500	0.510	102	mg/L	SW-846 6010B	P
Copper	0.500	0.500	100	mg/L	SW-846 6010B	P
Iron	5.00	4.94	99	mg/L	SW-846 6010B	P
Lead	0.500	0.510	102	mg/L	SW-846 6010B	P
Lithium	0.500	0.480	96	mg/L	SW-846 6010B	P
Magnesium	5.00	4.95	99	mg/L	SW-846 6010B	P
Manganese	0.500	0.510	103	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.500	100	mg/L	SW-846 6010B	P
Nickel	0.500	0.510	102	mg/L	SW-846 6010B	P
Potassium	10.0	9.65	96	mg/L	SW-846 6010B	P
Selenium	0.500	0.510	101	mg/L	SW-846 6010B	P
Silicon	0.500	0.460	93	mg/L	SW-846 6010B	P
Silver	0.500	0.510	102	mg/L	SW-846 6010B	P
Sodium	20.0	19.8	99	mg/L	SW-846 6010B	P
Strontium	0.500	0.490	98	mg/L	SW-846 6010B	P
Thallium	0.500	0.510	102	mg/L	SW-846 6010B	P
Tin	0.500	0.510	103	mg/L	SW-846 6010B	P
Titanium	0.500	0.500	100	mg/L	SW-846 6010B	P
Vanadium	0.500	0.510	103	mg/L	SW-846 6010B	P
Zinc	0.500	0.510	101	mg/L	SW-846 6010B	P
Zirconium	0.500	0.500	101	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

## BLANKS

Lab Name: GCAL Contract: \_\_\_\_\_  
 Lab Code: LA024 Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: 206101224  
 Lab Sample ID: ICB ICAL ID: 1  
 Lab Sample DESC: ICB FOR HBN 334508 [ICP/3922] Preparation Blank Matrix: (soil / water) \_\_\_\_\_  
 Instrument ID: ICP6 Date Analyzed: 10/13/06 Time: 1004

***INITIAL CALIBRATION BLANK***

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Antimony	0.060	U	mg/L	0.0025	0.060	SW-846 6010B	P
Chromium	0.010	U	mg/L	0.00090	0.010	SW-846 6010B	P
Thallium	0.0018	B	mg/L	0.0013	0.020	SW-846 6010B	P
Vanadium	0.020	U	mg/L	0.00070	0.020	SW-846 6010B	P

## BLANKS

Lab Name: GCAL Contract: \_\_\_\_\_  
 Lab Code: LA024 Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: 206101224  
 Lab Sample ID: CCB ICAL ID: 1  
 Lab Sample DESC: CCB FOR HBN 334508 [ICP/3922] Preparation Blank Matrix: (soil / water) \_\_\_\_\_  
 Instrument ID: ICP6 Date Analyzed: 10/13/06 Time: 1101

***CONTINUING CALIBRATION BLANK***

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Antimony	0.060	U	mg/L	0.0025	0.060	SW-846 6010B	P
Chromium	0.010	U	mg/L	0.00090	0.010	SW-846 6010B	P
Thallium	0.020	U	mg/L	0.0013	0.020	SW-846 6010B	P
Vanadium	0.020	U	mg/L	0.00070	0.020	SW-846 6010B	P

## BLANKS

Lab Name: GCAL Contract: \_\_\_\_\_  
 Lab Code: LA024 Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: 206101224  
 Lab Sample ID: 417616 ICAL ID: 1  
 Lab Sample DESC: MB417616 Preparation Blank Matrix: (soil / water) Water  
 Instrument ID: ICP6 Date Analyzed: 10/13/06 Time: 1121

***PREPARATION BLANK***

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Antimony	0.060	U	mg/L	0.0025	0.060	SW-846 6010B	P
Chromium	0.010	U	mg/L	0.00090	0.010	SW-846 6010B	P
Thallium	0.020	U	mg/L	0.0013	0.020	SW-846 6010B	P
Vanadium	0.020	U	mg/L	0.00070	0.020	SW-846 6010B	P

## BLANKS

Lab Name: GCAL  
 Lab Code: LA024 Case No.:  
 Lab Sample ID: CCB  
 Lab Sample DESC: CCB FOR HBN 334508 [ICP/3922]  
 Instrument ID: ICP6  
 Contract: \_\_\_\_\_  
 SAS No.: \_\_\_\_\_ SDG No.: 206101224  
 ICAL ID: 1  
 Preparation Blank Matrix: (soil / water) \_\_\_\_\_  
 Date Analyzed: 10/13/06 Time: 1234

## CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Antimony	0.060	U	mg/L	0.0025	0.060	SW-846 6010B	P
Chromium	0.010	U	mg/L	0.00090	0.010	SW-846 6010B	P
Thallium	0.0037	B	mg/L	0.0013	0.020	SW-846 6010B	P
Vanadium	0.020	U	mg/L	0.00070	0.020	SW-846 6010B	P

## BLANKS

Lab Name: GCAL Contract: \_\_\_\_\_  
 Lab Code: LA024 Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: 206101224  
 Lab Sample ID: CCB ICAL ID: 1  
 Lab Sample DESC: CCB FOR HBN 334508 [ICP/3922] Preparation Blank Matrix: (soil / water) \_\_\_\_\_  
 Instrument ID: ICP6 Date Analyzed: 10/13/06 Time: 1354

***CONTINUING CALIBRATION BLANK***

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Antimony	0.060	U	mg/L	0.0025	0.060	SW-846 6010B	P
Chromium	0.010	U	mg/L	0.00090	0.010	SW-846 6010B	P
Thallium	0.0042	B	mg/L	0.0013	0.020	SW-846 6010B	P
Vanadium	0.020	U	mg/L	0.00070	0.020	SW-846 6010B	P

## BLANKS

Lab Name: GCAL Contract: \_\_\_\_\_  
 Lab Code: LA024 Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: 206101224  
 Lab Sample ID: CCB ICAL ID: 1  
 Lab Sample DESC: CCB FOR HBN 334508 [ICP/3922] Preparation Blank Matrix: (soil / water) \_\_\_\_\_  
 Instrument ID: ICP6 Date Analyzed: 10/13/06 Time: 1516

**CONTINUING CALIBRATION BLANK**

<b>Analyte</b>	<b>Conc.</b>	<b>C</b>	<b>Units</b>	<b>MDL</b>	<b>PQL</b>	<b>Method</b>	<b>Type</b>
Antimony	0.060	U	mg/L	0.0025	0.060	SW-846 6010B	P
Chromium	0.010	U	mg/L	0.00090	0.010	SW-846 6010B	P
Thallium	0.0024	B	mg/L	0.0013	0.020	SW-846 6010B	P
Vanadium	0.020	U	mg/L	0.00070	0.020	SW-846 6010B	P

## BLANKS

Lab Name: GCAL Contract: \_\_\_\_\_  
 Lab Code: LA024 Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: 206101224  
 Lab Sample ID: CCB ICAL ID: 1  
 Lab Sample DESC: CCB FOR HBN 334508 [ICP/3922] Preparation Blank Matrix: (soil / water) \_\_\_\_\_  
 Instrument ID: ICP6 Date Analyzed: 10/13/06 Time: 1636

## CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Antimony	0.060	U	mg/L	0.0025	0.060	SW-846 6010B	P
Chromium	0.010	U	mg/L	0.00090	0.010	SW-846 6010B	P
Thallium	0.0020	B	mg/L	0.0013	0.020	SW-846 6010B	P
Vanadium	0.020	U	mg/L	0.00070	0.020	SW-846 6010B	P

## ICP INTERFERENCE CHECK SAMPLE

Lab Name: GCAL Contract: \_\_\_\_\_  
 Lab Code: LA024 Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: 206101224  
 ICP ID Number: ICP6 ICS Source: 163-17-5 SPEX~163-18-2 SPEX

Concentration Units: mg/L

Analyte	True		Initial Found			Final Found		
	Sol.	Sol.	Sol.	Sol.	%R	Sol.	Sol.	
	A	AB	A	AB		A	AB	%R
Aluminum	200	200	218	211	106			
Antimony	0	1.00		1.06	106			
Arsenic	0	1.00		1.04	104			
Barium	0	0.50		0.53	106			
Beryllium	0	0.50		0.53	106			
Boron	0	1.00		1.06	106			
Cadmium	0	1.00		0.99	99			
Calcium	200	200	212	203	102			
Chromium	0	0.50		0.52	104			
Cobalt	0	0.50		0.50	100			
Copper	0	0.50		0.54	108			
Iron	80.0	80.0	83.9	80.8	101			
Lead	0	1.00		1.01	101			
Magnesium	200	200	209	205	102			
Manganese	0	0.50		0.53	106			
Molybdenum	0	1.00		1.00	100			
Nickel	0	1.00		0.97	97			
Selenium	0	1.00		1.04	104			
Silver	0	1.00		1.09	109			
Thallium	0	1.00		1.07	107			
Vanadium	0	0.50		0.51	102			
Zinc	0	1.00		1.02	102			

FORM IV - IN

**000038**

## MS/MSD RECOVERY

Lab Name: GCAL Contract: \_\_\_\_\_  
 Lab Code: LA024 Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: 206101224  
 Matrix Spike - EPA Sample No: FWPSW01-001 Method SW-846 6010B

SAMPLE NO. :	20610122402		SPIKE UNITS	SAMPLE CONCENTRATION ADDED	MS CONCENTRATION	MS % REC	#	QC. LIMITS
Antimony	mg/L	.5		0	.55	109		75 - 125
Chromium	mg/L	.5		0	.44	87		75 - 125
Thallium	mg/L	.5		.007	.49	97		75 - 125
Vanadium	mg/L	.5		0	.51	102		75 - 125

SAMPLE NO. :	20610122403		SPIKE UNITS	MSD CONC.	MSD % REC	#	% RPD	#	QC. LIMITS REC	RPD
Antimony	mg/L	.5		.56	112		2		75 - 125	0 - 20
Chromium	mg/L	.5		.46	91		4		75 - 125	0 - 20
Thallium	mg/L	.5		.5	99		2		75 - 125	0 - 20
Vanadium	mg/L	.5		.53	105		4		75 - 125	0 - 20

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

RPD : 0 out of 4 outside limits

Spike Recovery: 0 out of 8 outside limits

## MS/MSD RECOVERY

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.: SDG No.: 206101224

Matrix Spike - EPA Sample No: FWPSW01-001

Method SW-846 6010B Dissolved

**SAMPLE NO. : 20610122402**

COMPOUND	SPIKE UNITS	ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS % REC	#	QC. LIMITS
Antimony	mg/L	.5	0	.58	117		75 - 125
Chromium	mg/L	.5	0	.46	92		75 - 125
Thallium	mg/L	.5	.0061	.52	102		75 - 125
Vanadium	mg/L	.5	0	.54	108		75 - 125

**SAMPLE NO. : 20610122403**

COMPOUND	SPIKE UNITS	ADDED	MSD CONC.	MSD % REC	#	% RPD	#	QC. LIMITS REC	QC. LIMITS RPD
Antimony	mg/L	.5	.57	114		2		75 - 125	0 - 20
Chromium	mg/L	.5	.45	91		2		75 - 125	0 - 20
Thallium	mg/L	.5	.51	100		2		75 - 125	0 - 20
Vanadium	mg/L	.5	.53	107		2		75 - 125	0 - 20

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

RPD : 0 out of 4 outside limits

Spike Recovery: 0 out of 8 outside limits

FORM V (PART 1) - IN

000040

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: GCAL  
 Lab Code: LA024 Case No.:  
 Matrix: ( soil / water ) Water  
 Level: ( low / med )  
 Orig Lab Sample ID: 20610122401

Sample ID: FWPSW01-001PDS

Contract:

SAS No.: SDG No.: 206101224

Lab Sample ID: 417887

Analyte	LL	UL	Spiked Sample Result		C	Sample Result	C	Spike Added		% R	Q	Units	Method	Type
			C	Result				Added	Value					
Antimony	75	125		1.1		0	U	1		110		mg/L	SW-846 6010B	P
Chromium	75	125		.92		0	U	1		92		mg/L	SW-846 6010B	P
Thallium	75	125		.97		.007	B	1		97		mg/L	SW-846 6010B	P
Vanadium	75	125		1.04		0	U	1		104		mg/L	SW-846 6010B	P

FORM V (PART 2) - IN

**000041**

## LABORATORY CONTROL SAMPLE

Lab Name: GCAL  
 Lab Code: LA024 Case No.: \_\_\_\_\_  
 Matrix: ( soil / water ) Water  
 Lab Sample ID: 417617  
 Sample ID: LCS417617  
 Contract: \_\_\_\_\_  
 SAS No.: \_\_\_\_\_ SDG No.: 206101224  
 LCS Source: 334-58-12 INORGANIC VENTURES

<b>Analyte</b>	<b>True</b>	<b>Found</b>	<b>% R</b>	<b>LL</b>	<b>UL</b>	<b>Units</b>	<b>Method</b>	<b>Type</b>
Antimony	0.50	0.48	96	80	120	mg/L	SW-846 6010B	P
Chromium	0.50	0.49	97	80	120	mg/L	SW-846 6010B	P
Thallium	0.50	0.48	97	80	120	mg/L	SW-846 6010B	P
Vanadium	0.50	0.48	96	80	120	mg/L	SW-846 6010B	P

FORM VII - IN

000042

## SERIAL DILUTIONS

Lab Name: GCAL  
 Lab Code: LA024 Case No.  
 Matrix: ( soil / water ) Water  
 Level: ( low / med )  
 Lab Sample ID: 417888

Sample ID: FWPSW01-001SD  
 Contract:  
 SAS No.: SDG No.: 206101224  
 Org Lab Sample ID: 20610122401

Analyte	LL	UL	Initial Sample Result	Serial Dilution		% Diff.	Q	Units	Method	Type
				C	Result					
Antimony			0	U	0	U		mg/L	SW-846 6010B	P
Chromium			0	U	0	U		mg/L	SW-846 6010B	P
Thallium			0.0070	B	0.062	B	786	mg/L	SW-846 6010B	P
Vanadium			0	U	0	U		mg/L	SW-846 6010B	P

FORM IX - IN

000043

## PREPARATION LOG

Lab Name: GCAL Sample ID: \_\_\_\_\_  
Lab Code: LA024 Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: 206101224  
Method: SW-846 6010B Method Type: P

EPA Sample No.	Preparation Date	Weight	Units	Volume	Units
FWPSW01-001	10/12/06			50	mL
FWPSW01-001 MS	10/12/06			50	mL
FWPSW01-001 MSD	10/12/06			50	mL
FWPSW02-002	10/12/06			50	mL
FWPSW03-003	10/12/06			50	mL
LCS417617	10/12/06			50	mL
MB417616	10/12/06			50	mL
SP-004-FB	10/12/06			50	mL
SPSW01-001	10/12/06			50	mL
SPSW02-002	10/12/06			50	mL
SPSW03-003	10/12/06			50	mL

PREPARATION LOG

Lab Name: GCAL Sample ID: \_\_\_\_\_  
Lab Code: LA024 Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: 206101224  
Method: SW-846 6010B Dissolved Method Type: P

EPA Sample No.	Preparation Date	Weight	Units	Volume	Units
FWPSW01-001	10/12/06			50	mL
FWPSW01-001 MS	10/12/06			50	mL
FWPSW01-001 MSD	10/12/06			50	mL
FWPSW02-002	10/12/06			50	mL
FWPSW03-003	10/12/06			50	mL
LCS417617	10/12/06			50	mL
MB417616	10/12/06			50	mL
SPSW01-001	10/12/06			50	mL
SPSW02-002	10/12/06			50	mL
SPSW03-003	10/12/06			50	mL

## ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 10/13/06  
 Lab Code: LA024 Case No.: SAS No.: SDG No.: 206101224 End Date: 10/13/06  
 Instrument ID Number: ICP6 Method: SW-846 6010B Method Type: P

## Analyte Symbols

Sample No.	PF	D/F	Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Zr
ICV	*	1	0950		X							X																	X		X			
ICV2	*	1	0957																															
ICB	*	1	1004		X							X																	X		X			
CRDL	*	1	1011		X							X																		X		X		
CRDL2	*	1	1022									X																						
ICSA	*	1	1042		X							X																	X		X			
ICSAB	*	1	1048		X							X																	X		X			
CCV	*	1	1054		X							X																	X		X			
CCB	*	1	1101		X							X																	X		X			
MB417616	*	1	1121		X							X																	X		X			
LCS417617	*	1	1127		X							X																	X		X			
FWPSW01-001	*	2	1134		X							X																						
FWPSW01-001 MS	*	2	1141		X							X																						
FWPSW01-001 MSD	*	2	1148		X							X																						
FWPSW01-001PDS	*	2	1154		X							X																	X		X			
FWPSW01-001SD	*	10	1201		X							X																	X		X			
CCV	*	1	1223		X							X																	X		X			
CCB	*	1	1234		X							X																	X		X			
FWPSW01-001	*	2	1241		X							X																	X		X			
FWPSW01-001 MS	*	2	1247		X							X																	X		X			
FWPSW01-001 MSD	*	2	1253		X							X																	X		X			
FWPSW02-002	*	2	1300		X							X																	X		X			
FWPSW02-002	*	2	1307		X							X																	X		X			
FWPSW03-003	*	2	1313		X							X																	X		X			
FWPSW03-003	*	2	1320		X							X																	X		X			
CCV	*	1	1347		X							X																	X		X			
CCB	*	1	1354		X							X																	X		X			

## ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 10/13/06  
 Lab Code: LA024 Case No.: SAS No.: SDG No.: 206101224 End Date: 10/13/06  
 Instrument ID Number: ICP6 Method: SW-846 6010B Method Type: P

Sample No.	PF	D/F	Time	Analyte Symbols																											
				Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti
SPSW01-001	*	1	1400		X							X																	X		X
SPSW01-001	*	1	1407		X							X																	X		X
SPSW02-002	*	1	1414		X							X																	X		X
SPSW02-002	*	1	1420		X							X																	X		X
SPSW03-003	*	1	1426		X							X																	X		X
SPSW03-003	*	1	1433		X							X																	X		X
SP-004-FB	*	1	1440		X							X																	X		X
CCV	*	1	1507		X							X																	X		X
CCB	*	1	1516		X							X																	X		X
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1523																												
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1530																												
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1537																												
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1543																												
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1550																												
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1556																												
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	1602																												
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1608																												
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	1615																												
CCV	*	1	1629		X							X																	X		X
CCB	*	1	1636		X							X																	X		X

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FORM XIV - IN

016657

# ICP ANALYSIS

ICP6

AS# SAMPLE ID

1 CALIBRATION BLANK	
2 STANDARD 1	163-18-7
11 ICV-1600	163-16-1
12 CCV2-1601	163-17-4
13 ICB-1700	
8 CRDL-2300	163-18-1
4 CRDL-2301	163-19-1
5 ICSA-2000	163-17-5
6 ICSAB-2100	163-18-2
7 CCV-1800	
14 CCB-1900	Dilution
17 417616	MB for HBN 334426 W
18 417617	LCS for HBN 334426 W
19 --- 4482 ---	IV 20610122401 D 2 X
20	IV 20610122402 D MS 2 X
21	IV 20610122403 D MSD 2 X
22 417887	IV 20610122401 D PDS 2 X
23 417888	IV 20610122401 D SD 10 X
24	---
25	---
26	---
5 CCV-1800 F:S,	
14 CCB-1900	
27	IV 20610122401 T 2 X
28	IV 20610122402 T MS 2 X
29	IV 20610122403 T MSD 2 X
30	IV 20610122404 D 2 X
31	IV 20610122404 T 2 X
32	IV 20610122405 D 2 X
33	IV 20610122405 T 2 X
34	---
35	---
36	---
5 CCV-1800 F:S,	
14 CCB-1900	
37	IV 20610122406 D
38	IV 20610122406 T
39	IV 20610122407 D
40	IV 20610122407 T
41	IV 20610122408 D
42	IV 20610122408 T
43	IV 20610122409
44	---
45	---
46 163-19-1	CRDL-2301 data not used CLB 10/14/06

ANALYST	CLB
DATE	10/13/2006
TIME	9:36

AS# SAMPLE ID

5 CCV-1800	Dilution
14 CCB-1900	
47 417436	MB for HBN 334383 W
48 417437	LCS for HBN 334383 W
49 --- 0082 ---	IV 20610116801
50	IV 20610116802 DUP
51 417438	IV 20610116801 MS
52 417627	IV 20610116801 PDS
53 417628	IV 20610116801 SD 5 X
54	20610115201
55	20610116101 5 X
56	---
5 CCV-1800	
4 CCB-1900	
57 417510	MB for HBN 334405 W RR
58 417511	LCS for HBN 334405 W
59 --- 4515 ---	^ 20610120401
60 417513	^ 20610120401 MS
61 417563	^ 20610120401 MSD
62 417900	^ 20610120401 PDS
63 417901	^ 20610120401 SD 5 X
64	^ 20610120817
65	^ 20610120402
66	^ 20610120403
6 CCV-1800	
14 CCB-1900	
67	^ 20610120404 RR
68	^ 20610120405
69	^ 20610120406
70	20610121501 25 X
71	20610121501 40 X
72	---
73	---
74	---
75	---
76	---
5 CCV-1800	
4 CCB-1900	

ANALYST QC REV: CLB  
SECONDARY REV: MAP

QC CONTROL LIMITS:  
ICV (200.7) 95-105%  
ICV (6010B) 90-110%  
ICSAB 80-120%  
CCV 90-110%

COMMENTS: 3922, 334508

QC: all acceptable qc noted with a checkmark; failures as indicated.

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**Reprocessing Begun**  
**Logged In Analyst: met**

**Technique: ICP Continuous**

**Results Data Set (original): 2061013 A**  
**Results Library (original): C:\pe\met\Results\Results.mdb**  
**Results Data Set (reprocessed): 3922 B**  
**Results Library (reprocessed): C:\pe\met\Results\Results.mdb**

=====  
**Sequence No.: 1** **Autosampler Location: 1**  
**Sample ID: Calib Blank 1** **Date Collected: 10/13/2006 9:36:51 AM**  
**Analyst:** **Data Type: Reprocessed on 10/16/2006 9:32:14 AM**  
**Logged In Analyst (Original) : met**  
**Initial Sample Wt:** **Initial Sample Vol:**  
**Dilution:** **Sample Prep Vol:**

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**Mean Data: Calib Blank 1**

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ar 363.268 A	69887.1	169.19	0.24%	100.00	%
Ar 420.067 R	1217092.0	4064.09	0.33%	100.000	%
Scandium-IS	2853573.2	37882.63	1.33%	100.00	%
Yttrium, 7440-65-5A	1516744.8	18540.90	1.22%	100.00	%
Yttrium, 7440-65-5R	80330.1	53.79	0.07%	100.00	%
Aluminum, 7429-90-5†	152.4	5.03	3.30%	[0.00]	mg/L
Antimony, 7440-36-0†	49.7	7.03	14.16%	[0.00]	mg/L
Arsenic, 7440-38-2†	-152.6	10.15	6.65%	[0.00]	mg/L
Barium, 7440-39-3†	169.2	15.29	9.04%	[0.00]	mg/L
Beryllium, 7440-41-7†	1264.3	32.11	2.54%	[0.00]	mg/L
Boron, 7440-42-8†	317.8	18.59	5.85%	[0.00]	mg/L
Cadmium, 7440-43-9†	667.8	7.85	1.18%	[0.00]	mg/L
Calcium, 7440-70-2†	242.2	7.26	3.00%	[0.00]	mg/L
Chromium, 7440-47-3†	814.7	8.06	0.99%	[0.00]	mg/L
Cobalt, 7440-48-4†	-371.6	7.49	2.02%	[0.00]	mg/L
Copper, 7440-50-8†	10951.5	147.24	1.34%	[0.00]	mg/L
Iron, 7439-89-6†	85.0	4.99	5.87%	[0.00]	mg/L
Lead, 7439-92-1†	-41.8	17.27	41.32%	[0.00]	mg/L
Lithium, 7439-93-2†	386.8	40.33	10.43%	[0.00]	mg/L
Magnesium, 7439-95-4†	7.1	1.62	22.73%	[0.00]	mg/L
Manganese, 7439-96-5†	1362.0	23.15	1.70%	[0.00]	mg/L
Molybdenum, 7439-98-7†	-85.5	10.19	11.92%	[0.00]	mg/L
Nickel, 7440-02-0†	124.6	10.13	8.13%	[0.00]	mg/L
Potassium, 7440-09-7†	-529.3	3.61	0.68%	[0.00]	mg/L
Selenium, 7782-49-2†	-38.7	2.64	6.83%	[0.00]	mg/L
Silicon, 7440-21-3†	102.8	5.76	5.60%	[0.00]	mg/L
Silver, 7440-22-4†	-615.8	63.44	10.30%	[0.00]	mg/L
Sodium, 7440-23-5†	1527.7	117.16	7.67%	[0.00]	mg/L
Strontium, 7440-24-6†	1376.0	18.71	1.36%	[0.00]	mg/L
Thallium, 7440-28-0†	-130.5	8.92	6.83%	[0.00]	mg/L
Tin, 7440-31-5†	77.9	9.62	12.36%	[0.00]	mg/L
Titanium, 7440-32-6†	-542.6	153.76	28.34%	[0.00]	mg/L
Vanadium, 7440-62-2†	5237.8	91.94	1.76%	[0.00]	mg/L
Zinc, 7440-66-6†	1004.7	43.29	4.31%	[0.00]	mg/L
Zirconium, 7440-67-7†	1165.1	88.55	7.60%	[0.00]	mg/L

=====  
**Sequence No.: 2** **Autosampler Location: 2**  
**Sample ID: Calib Std 1** **Date Collected: 10/13/2006 9:43:36 AM**  
**Analyst:** **Data Type: Reprocessed on 10/16/2006 9:32:21 AM**  
**Logged In Analyst (Original) : met**  
**Initial Sample Wt:** **Initial Sample Vol:**  
**Dilution:** **Sample Prep Vol:**

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**Mean Data: Calib Std 1**

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ar 363.268 A	69520.4	97.69	0.14%	99.475	%

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Ar 420.067 R	1211528.6	916.37	0.08%	99.543	%
Scandium-IS	2876907.3	6201.12	0.22%	100.82	%
Yttrium, 7440-65-5A	1515469.2	2632.07	0.17%	99.916	%
Yttrium, 7440-65-5R	81403.7	482.89	0.59%	101.34	%
Aluminum, 7429-90-5†	8288.3	31.12	0.38%	[10.00000]	mg/L
Antimony, 7440-36-0†	6381.7	39.41	0.62%	[1.000000]	mg/L
Arsenic, 7440-38-2†	3680.4	12.68	0.34%	[1.000000]	mg/L
Barium, 7440-39-3†	191307.0	620.14	0.32%	[1.000000]	mg/L
Beryllium, 7440-41-7†	4329212.5	34899.55	0.81%	[1.000000]	mg/L
Boron, 7440-42-8†	304885.6	1189.56	0.39%	[5.00]	mg/L
Cadmium, 7440-43-9†	251721.9	734.51	0.29%	[1.000000]	mg/L
Calcium, 7440-70-2†	18973.0	50.91	0.27%	[10.00000]	mg/L
Chromium, 7440-47-3†	174047.4	420.43	0.24%	[1.000000]	mg/L
Cobalt, 7440-48-4†	56921.8	232.56	0.41%	[1.000000]	mg/L
Copper, 7440-50-8†	390055.0	1599.99	0.41%	[1.000000]	mg/L
Iron, 7439-89-6†	15044.0	73.47	0.49%	[10.00000]	mg/L
Lead, 7439-92-1†	11421.3	67.43	0.59%	[1.000000]	mg/L
Lithium, 7439-93-2†	62551.0	188.40	0.30%	[1.00]	mg/L
Magnesium, 7439-95-4†	3139.9	12.12	0.39%	[10.00000]	mg/L
Manganese, 7439-96-5†	815573.2	2506.37	0.31%	[1.000000]	mg/L
Molybdenum, 7439-98-7†	32377.1	152.15	0.47%	[1.00]	mg/L
Nickel, 7440-02-0†	57539.8	197.27	0.34%	[1.000000]	mg/L
Potassium, 7440-09-7†	45481.1	213.68	0.47%	[20.00000]	mg/L
Selenium, 7782-49-2†	1733.7	13.73	0.79%	[1.000000]	mg/L
Silicon, 7440-21-3†	911.3	1.19	0.13%	[1.0]	mg/L
Silver, 7440-22-4†	320385.8	881.04	0.27%	[1.000000]	mg/L
Sodium, 7440-23-5†	228097.4	2533.02	1.11%	[40.00000]	mg/L
Strontium, 7440-24-6†	475975.9	6298.82	1.32%	[1.00]	mg/L
Thallium, 7440-28-0†	6654.6	44.44	0.67%	[1.000000]	mg/L
Tin, 7440-31-5†	9827.4	50.36	0.51%	[1.00]	mg/L
Titanium, 7440-32-6†	579272.0	1141.31	0.20%	[1.000000]	mg/L
Vanadium, 7440-62-2†	122617.4	381.99	0.31%	[1.000000]	mg/L
Zinc, 7440-66-6†	194926.3	550.73	0.28%	[1.000000]	mg/L
Zirconium, 7440-67-7†	488874.6	1838.77	0.38%	[1.00]	mg/L

**Calibration Summary**

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Aluminum, 7429-90-5 1		Lin, Calc Int	0.0	828.8	0.00000	1.000000	
Antimony, 7440-36-0 1		Lin, Calc Int	0.0	6382	0.00000	1.000000	
Arsenic, 7440-38-2 1		Lin, Calc Int	0.0	3680	0.00000	1.000000	
Barium, 7440-39-3 1		Lin, Calc Int	0.0	191300	0.00000	1.000000	
Beryllium, 7440-41-7 1		Lin, Calc Int	0.0	4329000	0.00000	1.000000	
Boron, 7440-42-8 1		Lin, Calc Int	0.0	60980	0.00000	1.000000	
Cadmium, 7440-43-9 1		Lin, Calc Int	0.0	251700	0.00000	1.000000	
Calcium, 7440-70-2 1		Lin, Calc Int	0.0	1897	0.00000	1.000000	
Chromium, 7440-47-3 1		Lin, Calc Int	0.0	174000	0.00000	1.000000	
Cobalt, 7440-48-4 1		Lin, Calc Int	0.0	56920	0.00000	1.000000	
Copper, 7440-50-8 1		Lin, Calc Int	0.0	390100	0.00000	1.000000	
Iron, 7439-89-6 1		Lin, Calc Int	-0.0	1504	0.00000	1.000000	
Lead, 7439-92-1 1		Lin, Calc Int	0.0	11420	0.00000	1.000000	
Lithium, 7439-93-2 1		Lin, Calc Int	0.0	62550	0.00000	1.000000	
Magnesium, 7439-95-4 1		Lin, Calc Int	0.0	314.0	0.00000	1.000000	
Manganese, 7439-96-5 1		Lin, Calc Int	0.0	815600	0.00000	1.000000	
Molybdenum, 7439-98-7 1		Lin, Calc Int	0.0	32380	0.00000	1.000000	
Nickel, 7440-02-0 1		Lin, Calc Int	0.0	57540	0.00000	1.000000	
Potassium, 7440-09-7 1		Lin, Calc Int	0.0	2274	0.00000	1.000000	
Selenium, 7782-49-2 1		Lin, Calc Int	0.0	1734	0.00000	1.000000	
Silicon, 7440-21-3 1		Lin, Calc Int	0.0	911.3	0.00000	1.000000	
Silver, 7440-22-4 1		Lin, Calc Int	0.0	320400	0.00000	1.000000	
Sodium, 7440-23-5 1		Lin, Calc Int	0.0	5702	0.00000	1.000000	
Strontium, 7440-24-6 1		Lin, Calc Int	0.0	476000	0.00000	1.000000	
Thallium, 7440-28-0 1		Lin, Calc Int	0.0	6655	0.00000	1.000000	
Tin, 7440-31-5 1		Lin, Calc Int	0.0	9827	0.00000	1.000000	
Titanium, 7440-32-6 1		Lin, Calc Int	0.0	579300	0.00000	1.000000	
Vanadium, 7440-62-2 1		Lin, Calc Int	0.0	122600	0.00000	1.000000	
Zinc, 7440-66-6 1		Lin, Calc Int	0.0	194900	0.00000	1.000000	
Zirconium, 7440-67-7 1		Lin, Calc Int	0.0	488900	0.00000	1.000000	

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Sequence No.: 3  
 Sample ID: 1600

Analyst:  
 Logged In Analyst (Original) : met  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 11  
 Date Collected: 10/13/2006 9:50:42 AM  
 Data Type: Reprocessed on 10/16/2006 9:32:24 AM  
 Initial Sample Vol:  
 Sample Prep Vol:

## Mean Data: 1600

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	69554.0	99.523 %	0.3007			0.30%
Ar 420.067 R	1212580.9	99.629 %	0.0211			0.02%
Scandium-IS	2863285.4	100.34 %	0.623			0.62%
Yttrium, 7440-65-5A	1514077.6	99.824 %	0.6983			0.70%
Yttrium, 7440-65-5R	81573.5	101.55 %	0.578			0.57%
Aluminum, 7429-90-5†	8186.0	9.883 mg/L	0.0365	9.883 mg/L	0.0365	0.37%
QC value within limits for Aluminum, 7429-90-5		Recovery = 98.83%				
Antimony, 7440-36-0†	6480.6	1.0023 mg/L	0.00993	1.0023 mg/L	0.00993	0.99%
QC value within limits for Antimony, 7440-36-0		Recovery = 100.23%				
Arsenic, 7440-38-2†	3546.1	0.9918 mg/L	0.01184	0.9918 mg/L	0.01184	1.19%
QC value within limits for Arsenic, 7440-38-2		Recovery = 99.18%				
Barium, 7440-39-3†	195859.4	1.0224 mg/L	0.00762	1.0224 mg/L	0.00762	0.74%
QC value within limits for Barium, 7440-39-3		Recovery = 102.24%				
Beryllium, 7440-41-7†	4313122.2	0.9956 mg/L	0.00026	0.9956 mg/L	0.00026	0.03%
QC value within limits for Beryllium, 7440-41-7		Recovery = 99.56%				
Boron, 7440-42-8†	311541.5	5.1151 mg/L	0.03076	5.1151 mg/L	0.03076	0.60%
QC value within limits for Boron, 7440-42-8		Recovery = 102.30%				
Cadmium, 7440-43-9†	246537.1	0.9778 mg/L	0.00714	0.9778 mg/L	0.00714	0.73%
QC value within limits for Cadmium, 7440-43-9		Recovery = 97.78%				
Calcium, 7440-70-2†	19083.8	10.05 mg/L	0.047	10.05 mg/L	0.047	0.47%
QC value within limits for Calcium, 7440-70-2		Recovery = 100.54%				
Chromium, 7440-47-3†	173048.4	1.0006 mg/L	0.00832	1.0006 mg/L	0.00832	0.83%
QC value within limits for Chromium, 7440-47-3		Recovery = 100.06%				
Cobalt, 7440-48-4†	55930.4	0.9781 mg/L	0.00774	0.9781 mg/L	0.00774	0.79%
QC value within limits for Cobalt, 7440-48-4		Recovery = 97.81%				
Copper, 7440-50-8†	381483.3	0.9749 mg/L	0.00831	0.9749 mg/L	0.00831	0.85%
QC value within limits for Copper, 7440-50-8		Recovery = 97.49%				
Iron, 7439-89-6†	15508.8	10.306 mg/L	0.0267	10.306 mg/L	0.0267	0.26%
QC value within limits for Iron, 7439-89-6		Recovery = 103.06%				
Lead, 7439-92-1†	11293.3	0.9875 mg/L	0.00897	0.9875 mg/L	0.00897	0.91%
QC value within limits for Lead, 7439-92-1		Recovery = 98.75%				
Lithium, 7439-93-2†	62157.6	0.9940 mg/L	0.00356	0.9940 mg/L	0.00356	0.36%
QC value within limits for Lithium, 7439-93-2		Recovery = 99.40%				
Magnesium, 7439-95-4†	3179.9	10.131 mg/L	0.0640	10.131 mg/L	0.0640	0.63%
QC value within limits for Magnesium, 7439-95-4		Recovery = 101.31%				
Manganese, 7439-96-5†	809607.3	0.992 mg/L	0.0073	0.992 mg/L	0.0073	0.74%
QC value within limits for Manganese, 7439-96-5		Recovery = 99.19%				
Molybdenum, 7439-98-7†	31048.2	0.9588 mg/L	0.00910	0.9588 mg/L	0.00910	0.95%
QC value within limits for Molybdenum, 7439-98-7		Recovery = 95.88%				
Nickel, 7440-02-0†	56838.0	0.9863 mg/L	0.00830	0.9863 mg/L	0.00830	0.84%
QC value within limits for Nickel, 7440-02-0		Recovery = 98.63%				
Potassium, 7440-09-7†	23137.2	10.171 mg/L	0.0406	10.171 mg/L	0.0406	0.40%
QC value within limits for Potassium, 7440-09-7		Recovery = 101.71%				
Selenium, 7782-49-2†	1715.1	0.9948 mg/L	0.01073	0.9948 mg/L	0.01073	1.08%
QC value within limits for Selenium, 7782-49-2		Recovery = 99.48%				
Silicon, 7440-21-3†	23.0	0.0201 mg/L	0.00358	0.0201 mg/L	0.00358	17.83%
Silver, 7440-22-4†	323168.9	1.0250 mg/L	0.00795	1.0250 mg/L	0.00795	0.78%
QC value within limits for Silver, 7440-22-4		Recovery = 102.50%				
Sodium, 7440-23-5†	56630.4	9.9267 mg/L	0.01792	9.9267 mg/L	0.01792	0.18%
QC value within limits for Sodium, 7440-23-5		Recovery = 99.27%				
Strontium, 7440-24-6†	461052.9	0.9684 mg/L	0.00886	0.9684 mg/L	0.00886	0.92%
QC value within limits for Strontium, 7440-24-6		Recovery = 96.84%				
Thallium, 7440-28-0†	6557.2	0.9918 mg/L	0.00920	0.9918 mg/L	0.00920	0.93%
QC value within limits for Thallium, 7440-28-0		Recovery = 99.18%				
Tin, 7440-31-5†	10046.3	1.0226 mg/L	0.01060	1.0226 mg/L	0.01060	1.04%
QC value within limits for Tin, 7440-31-5		Recovery = 102.26%				
Titanium, 7440-32-6†	570161.1	0.9841 mg/L	0.00759	0.9841 mg/L	0.00759	0.77%
QC value within limits for Titanium, 7440-32-6		Recovery = 98.41%				
Vanadium, 7440-62-2†	121894.2	0.9935 mg/L	0.00721	0.9935 mg/L	0.00721	0.73%
QC value within limits for Vanadium, 7440-62-2		Recovery = 99.35%				

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Method: ICP6

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Date: 10/16/2006 9:32:29 AM

Zinc,7440-66-6† 189833.8 0.9655 mg/L 0.00755 0.9655 mg/L 0.00755 0.78%  
QC value within limits for Zinc,7440-66-6 Recovery = 96.55%  
Zirconium,7440-67-7† 1267.9 0.0015 mg/L 0.00071 0.0015 mg/L 0.00071 47.46%  
All analyte(s) passed QC.

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Sequence No.: 4

Sample ID: 1601

Analyst:

Logged In Analyst (Original) : met

Initial Sample Wt:

Dilution:

Autosampler Location: 12

Date Collected: 10/13/2006 9:57:37 AM

Data Type: Reprocessed on 10/16/2006 9:32:26 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 1601

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	70200.9	100.45 %	0.134			0.13%
Ar 420.067 R	1217036.7	99.995 %	0.1855			0.19%
Scandium-IS	2914556.0	102.14 %	1.269			1.24%
Yttrium,7440-65-5A	1544773.7	101.85 %	1.180			1.16%
Yttrium,7440-65-5R	80356.7	100.03 %	0.490			0.49%
Aluminum,7429-90-5†	4.4	0.005 mg/L	0.0034	0.005 mg/L	0.0034	64.45%
Antimony,7440-36-0†	-14.8	-0.0023 mg/L	0.00095	-0.0023 mg/L	0.00095	41.12%
Arsenic,7440-38-2†	67.0	0.0182 mg/L	0.00125	0.0182 mg/L	0.00125	6.88%
Barium,7440-39-3†	98.0	0.0005 mg/L	0.00004	0.0005 mg/L	0.00004	7.64%
Beryllium,7440-41-7†	1226.6	0.0003 mg/L	0.00001	0.0003 mg/L	0.00001	3.27%
Boron,7440-42-8†	6233.5	0.1022 mg/L	0.00576	0.1022 mg/L	0.00576	5.64%
Cadmium,7440-43-9†	-50.8	-0.0002 mg/L	0.00005	-0.0002 mg/L	0.00005	26.63%
Calcium,7440-70-2†	-45.4	-0.024 mg/L	0.0053	-0.024 mg/L	0.0053	22.21%
Chromium,7440-47-3†	-177.9	-0.0010 mg/L	0.00002	-0.0010 mg/L	0.00002	1.55%
Cobalt,7440-48-4†	3.0	0.0000 mg/L	0.00016	0.0000 mg/L	0.00016	370.95%
Copper,7440-50-8†	1775.4	0.0045 mg/L	0.00069	0.0045 mg/L	0.00069	15.22%
Iron,7439-89-6†	-14.7	-0.0098 mg/L	0.00098	-0.0098 mg/L	0.00098	10.08%
Lead,7439-92-1†	1.0	0.0001 mg/L	0.00027	0.0001 mg/L	0.00027	355.19%
Lithium,7439-93-2†	22.6	0.0004 mg/L	0.00048	0.0004 mg/L	0.00048	133.34%
Magnesium,7439-95-4†	1.1	0.0034 mg/L	0.02317	0.0034 mg/L	0.02317	683.26%
Manganese, 7439-96-5†	1961.4	0.002 mg/L	0.0000	0.002 mg/L	0.0000	1.62%
Molybdenum,7439-98-7†	11.6	0.0004 mg/L	0.00012	0.0004 mg/L	0.00012	32.67%
Nickel,7440-02-0†	-0.2	0.0000 mg/L	0.00010	0.0000 mg/L	0.00010	>999.9%
Potassium,7440-09-7†	109.8	0.0483 mg/L	0.00552	0.0483 mg/L	0.00552	11.43%
Selenium,7782-49-2†	-0.8	-0.0005 mg/L	0.00409	-0.0005 mg/L	0.00409	820.94%
Silicon,7440-21-3†	908.3	0.9968 mg/L	0.00597	0.9968 mg/L	0.00597	0.60%
QC value within limits for Silicon,7440-21-3 Recovery = 99.68%						
Silver,7440-22-4†	2481.1	0.0077 mg/L	0.00016	0.0077 mg/L	0.00016	2.02%
Sodium,7440-23-5†	-183.4	-0.0322 mg/L	0.01045	-0.0322 mg/L	0.01045	32.48%
Strontium,7440-24-6†	-101.3	-0.0002 mg/L	0.00004	-0.0002 mg/L	0.00004	20.37%
Thallium,7440-28-0†	6.4	0.0010 mg/L	0.00191	0.0010 mg/L	0.00191	195.87%
Tin,7440-31-5†	32.6	0.0033 mg/L	0.00034	0.0033 mg/L	0.00034	10.32%
Titanium,7440-32-6†	486.4	0.0008 mg/L	0.00006	0.0008 mg/L	0.00006	6.86%
Vanadium,7440-62-2†	-7.5	-0.0001 mg/L	0.00036	-0.0001 mg/L	0.00036	588.84%
Zinc,7440-66-6†	262.0	0.0013 mg/L	0.00012	0.0013 mg/L	0.00012	8.82%
Zirconium,7440-67-7†	480088.2	0.9820 mg/L	0.00279	0.9820 mg/L	0.00279	0.28%

QC value within limits for Zirconium,7440-67-7 Recovery = 98.20%

All analyte(s) passed QC.

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Sequence No.: 5

Sample ID: 1700

Analyst:

Logged In Analyst (Original) : met

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 10/13/2006 10:04:27 AM

Data Type: Reprocessed on 10/16/2006 9:32:28 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 1700

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	69790.4	99.862 %	0.0624			0.06%
Ar 420.067 R	1211593.9	99.548 %	0.3599			0.36%
Scandium-IS	2843218.5	99.637 %	0.8405			0.84%

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Yttrium, 7440-65-5A	1512612.9	99.728 %	0.8791		0.88%
Yttrium, 7440-65-5R	80420.2	100.11 %	1.354		1.35%
Aluminum, 7429-90-5†	-1.7	-0.002 mg/L	0.0114	-0.002 mg/L	0.0114 575.06%
QC value within limits for Aluminum, 7429-90-5			Recovery = Not calculated		
Antimony, 7440-36-0†	-4.5	-0.0007 mg/L	0.00054	-0.0007 mg/L	0.00054 78.20%
QC value within limits for Antimony, 7440-36-0			Recovery = Not calculated		
Arsenic, 7440-38-2†	1.9	0.0005 mg/L	0.00142	0.0005 mg/L	0.00142 274.69%
QC value within limits for Arsenic, 7440-38-2			Recovery = Not calculated		
Barium, 7440-39-3†	15.0	0.0001 mg/L	0.00003	0.0001 mg/L	0.00003 34.38%
QC value within limits for Barium, 7440-39-3			Recovery = Not calculated		
Beryllium, 7440-41-7†	416.2	0.0001 mg/L	0.00002	0.0001 mg/L	0.00002 21.40%
QC value within limits for Beryllium, 7440-41-7			Recovery = Not calculated		
Boron, 7440-42-8†	3550.5	0.0582 mg/L	0.00267	0.0582 mg/L	0.00267 4.59%
QC value within limits for Boron, 7440-42-8			Recovery = Not calculated		
Cadmium, 7440-43-9†	-0.6	0.0000 mg/L	0.00005	0.0000 mg/L	0.00005 >999.9%
QC value within limits for Cadmium, 7440-43-9			Recovery = Not calculated		
Calcium, 7440-70-2†	-19.1	-0.010 mg/L	0.0045	-0.010 mg/L	0.0045 44.43%
QC value within limits for Calcium, 7440-70-2			Recovery = Not calculated		
Chromium, 7440-47-3†	-168.6	-0.0010 mg/L	0.00012	-0.0010 mg/L	0.00012 12.36%
QC value within limits for Chromium, 7440-47-3			Recovery = Not calculated		
Cobalt, 7440-48-4†	11.6	0.0002 mg/L	0.00015	0.0002 mg/L	0.00015 73.70%
QC value within limits for Cobalt, 7440-48-4			Recovery = Not calculated		
Copper, 7440-50-8†	402.2	0.0010 mg/L	0.00072	0.0010 mg/L	0.00072 70.04%
QC value within limits for Copper, 7440-50-8			Recovery = Not calculated		
Iron, 7439-89-6†	-18.6	-0.0124 mg/L	0.00257	-0.0124 mg/L	0.00257 20.77%
QC value within limits for Iron, 7439-89-6			Recovery = Not calculated		
Lead, 7439-92-1†	-4.6	-0.0004 mg/L	0.00139	-0.0004 mg/L	0.00139 342.99%
QC value within limits for Lead, 7439-92-1			Recovery = Not calculated		
Lithium, 7439-93-2†	-42.7	-0.0007 mg/L	0.00075	-0.0007 mg/L	0.00075 110.43%
QC value within limits for Lithium, 7439-93-2			Recovery = Not calculated		
Magnesium, 7439-95-4†	5.6	0.0179 mg/L	0.00772	0.0179 mg/L	0.00772 43.10%
QC value within limits for Magnesium, 7439-95-4			Recovery = Not calculated		
Manganese, 7439-96-5†	20.6	0.000 mg/L	0.0000	0.000 mg/L	0.0000 103.76%
QC value within limits for Manganese, 7439-96-5			Recovery = Not calculated		
Molybdenum, 7439-98-7†	4.8	0.0001 mg/L	0.00020	0.0001 mg/L	0.00020 138.96%
QC value within limits for Molybdenum, 7439-98-7			Recovery = Not calculated		
Nickel, 7440-02-0†	18.6	0.0003 mg/L	0.00028	0.0003 mg/L	0.00028 85.71%
QC value within limits for Nickel, 7440-02-0			Recovery = Not calculated		
Potassium, 7440-09-7†	48.5	0.0214 mg/L	0.00550	0.0214 mg/L	0.00550 25.77%
QC value within limits for Potassium, 7440-09-7			Recovery = Not calculated		
Selenium, 7782-49-2†	-0.4	-0.0003 mg/L	0.00046	-0.0003 mg/L	0.00046 176.55%
QC value within limits for Selenium, 7782-49-2			Recovery = Not calculated		
Silicon, 7440-21-3†	3.3	0.0036 mg/L	0.00235	0.0036 mg/L	0.00235 65.06%
QC value within limits for Silicon, 7440-21-3			Recovery = Not calculated		
Silver, 7440-22-4†	112.5	0.0004 mg/L	0.00018	0.0004 mg/L	0.00018 52.49%
QC value within limits for Silver, 7440-22-4			Recovery = Not calculated		
Sodium, 7440-23-5†	-306.3	-0.0537 mg/L	0.00270	-0.0537 mg/L	0.00270 5.03%
QC value within limits for Sodium, 7440-23-5			Recovery = Not calculated		
Strontium, 7440-24-6†	-70.0	-0.0001 mg/L	0.00009	-0.0001 mg/L	0.00009 63.82%
QC value within limits for Strontium, 7440-24-6			Recovery = Not calculated		
Thallium, 7440-28-0†	12.2	0.0018 mg/L	0.00063	0.0018 mg/L	0.00063 34.15%
QC value within limits for Thallium, 7440-28-0			Recovery = Not calculated		
Tin, 7440-31-5†	-10.9	-0.0011 mg/L	0.00030	-0.0011 mg/L	0.00030 26.67%
QC value within limits for Tin, 7440-31-5			Recovery = Not calculated		
Titanium, 7440-32-6†	154.4	0.0003 mg/L	0.00016	0.0003 mg/L	0.00016 58.24%
QC value within limits for Titanium, 7440-32-6			Recovery = Not calculated		
Vanadium, 7440-62-2†	39.1	0.0003 mg/L	0.00035	0.0003 mg/L	0.00035 109.42%
QC value within limits for Vanadium, 7440-62-2			Recovery = Not calculated		
Zinc, 7440-66-6†	-60.8	-0.0003 mg/L	0.00016	-0.0003 mg/L	0.00016 50.07%
QC value within limits for Zinc, 7440-66-6			Recovery = Not calculated		
Zirconium, 7440-67-7†	1324.8	0.0027 mg/L	0.00056	0.0027 mg/L	0.00056 20.59%
QC value within limits for Zirconium, 7440-67-7			Recovery = Not calculated		

All analyte(s) passed QC.

Sequence No.: 6

Sample ID: 2300

Analyst:

Logged In Analyst (Original) : met

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 10/13/2006 10:11:14 AM

Data Type: Reprocessed on 10/16/2006 9:32:30 AM

Initial Sample Vol:

Sample Prep Vol:

000053

## Mean Data: 2300

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	70038.1	100.22 %	0.298			0.30%
Ar 420.067 R	1212506.6	99.623 %	0.2955			0.30%
Scandium-IS	2862342.2	100.31 %	0.814			0.81%
Yttrium,7440-65-5A	1519428.5	100.18 %	0.665			0.66%
Yttrium,7440-65-5R	80928.7	100.75 %	0.504			0.50%
Aluminum,7429-90-5†	178.5	0.215 mg/L	0.0106	0.215 mg/L	0.0106	4.90%
QC value within limits for Aluminum,7429-90-5		Recovery = 107.72%				
Antimony,7440-36-0†	432.8	0.0676 mg/L	0.00051	0.0676 mg/L	0.00051	0.76%
QC value within limits for Antimony,7440-36-0		Recovery = 112.74%				
Arsenic,7440-38-2†	38.0	0.0109 mg/L	0.00227	0.0109 mg/L	0.00227	20.74%
QC value within limits for Arsenic,7440-38-2		Recovery = 109.49%				
Barium,7440-39-3†	2058.5	0.0107 mg/L	0.00003	0.0107 mg/L	0.00003	0.25%
QC value within limits for Barium,7440-39-3		Recovery = 107.36%				
Beryllium,7440-41-7†	23890.5	0.0055 mg/L	0.00007	0.0055 mg/L	0.00007	1.30%
QC value within limits for Beryllium,7440-41-7		Recovery = 109.62%				
Boron,7440-42-8†	34536.9	0.5665 mg/L	0.00766	0.5665 mg/L	0.00766	1.35%
QC value within limits for Boron,7440-42-8		Recovery = 113.29%				
Cadmium,7440-43-9†	1282.3	0.0051 mg/L	0.00004	0.0051 mg/L	0.00004	0.80%
QC value within limits for Cadmium,7440-43-9		Recovery = 101.63%				
Calcium,7440-70-2†	247.4	0.130 mg/L	0.0043	0.130 mg/L	0.0043	3.30%
QC value within limits for Calcium,7440-70-2		Recovery = 130.01%				
Chromium,7440-47-3†	1690.0	0.0098 mg/L	0.00005	0.0098 mg/L	0.00005	0.50%
QC value within limits for Chromium,7440-47-3		Recovery = 97.95%				
Cobalt,7440-48-4†	603.8	0.0104 mg/L	0.00013	0.0104 mg/L	0.00013	1.26%
QC value within limits for Cobalt,7440-48-4		Recovery = 103.57%				
Copper,7440-50-8†	4005.3	0.0102 mg/L	0.00057	0.0102 mg/L	0.00057	5.61%
QC value within limits for Copper,7440-50-8		Recovery = 102.19%				
Iron,7439-89-6†	136.0	0.0903 mg/L	0.00137	0.0903 mg/L	0.00137	1.51%
QC value within limits for Iron,7439-89-6		Recovery = 90.33%				
Lead,7439-92-1†	187.0	0.0164 mg/L	0.00086	0.0164 mg/L	0.00086	5.27%
QC value within limits for Lead,7439-92-1		Recovery = 109.26%				
Lithium,7439-93-2†	3255.8	0.0521 mg/L	0.00050	0.0521 mg/L	0.00050	0.96%
QC value within limits for Lithium,7439-93-2		Recovery = 104.12%				
Magnesium,7439-95-4†	36.3	0.1157 mg/L	0.01528	0.1157 mg/L	0.01528	13.20%
QC value within limits for Magnesium,7439-95-4		Recovery = 115.70%				
Manganese, 7439-96-5†	13435.0	0.016 mg/L	0.0003	0.016 mg/L	0.0003	1.63%
QC value within limits for Manganese, 7439-96-5		Recovery = 109.40%				
Molybdenum,7439-98-7†	1654.2	0.0511 mg/L	0.00011	0.0511 mg/L	0.00011	0.21%
QC value within limits for Molybdenum,7439-98-7		Recovery = 102.17%				
Nickel,7440-02-0†	2415.7	0.0419 mg/L	0.00036	0.0419 mg/L	0.00036	0.86%
QC value within limits for Nickel,7440-02-0		Recovery = 104.74%				
Potassium,7440-09-7†	1241.0	0.5456 mg/L	0.02244	0.5456 mg/L	0.02244	4.11%
QC value within limits for Potassium,7440-09-7		Recovery = 109.12%				
Selenium,7782-49-2†	70.1	0.0405 mg/L	0.00297	0.0405 mg/L	0.00297	7.35%
QC value within limits for Selenium,7782-49-2		Recovery = 101.22%				
Silicon,7440-21-3†	1.4	0.0015 mg/L	0.00037	0.0015 mg/L	0.00037	24.94%
Silver,7440-22-4†	3465.0	0.0111 mg/L	0.00019	0.0111 mg/L	0.00019	1.75%
QC value within limits for Silver,7440-22-4		Recovery = 111.30%				
Sodium,7440-23-5†	5781.4	1.0138 mg/L	0.00627	1.0138 mg/L	0.00627	0.62%
QC value within limits for Sodium,7440-23-5		Recovery = 101.38%				
Strontium,7440-24-6†	24502.2	0.0515 mg/L	0.00008	0.0515 mg/L	0.00008	0.16%
QC value within limits for Strontium,7440-24-6		Recovery = 102.95%				
Thallium,7440-28-0†	69.0	0.0109 mg/L	0.00130	0.0109 mg/L	0.00130	11.94%
QC value within limits for Thallium,7440-28-0		Recovery = 108.99%				
Tin,7440-31-5†	1032.3	0.1050 mg/L	0.00020	0.1050 mg/L	0.00020	0.19%
QC value within limits for Tin,7440-31-5		Recovery = 105.04%				
Titanium,7440-32-6†	61654.4	0.1064 mg/L	0.00052	0.1064 mg/L	0.00052	0.49%
QC value within limits for Titanium,7440-32-6		Recovery = 106.43%				
Vanadium,7440-62-2†	2622.2	0.0214 mg/L	0.00095	0.0214 mg/L	0.00095	4.45%
QC value within limits for Vanadium,7440-62-2		Recovery = 106.92%				
Zinc,7440-66-6†	4511.1	0.0229 mg/L	0.00010	0.0229 mg/L	0.00010	0.42%
QC value within limits for Zinc,7440-66-6		Recovery = 114.42%				
Zirconium,7440-67-7†	8361.6	0.0170 mg/L	0.00114	0.0170 mg/L	0.00114	6.70%
All analyte(s) passed QC.						

Sequence No.: 7  
 Sample ID: 2301  
 Analyst:  
 Logged In Analyst (Original) : met  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 4  
 Date Collected: 10/13/2006 10:22:14 AM  
 Data Type: Reprocessed on 10/16/2006 9:32:33 AM  
 Initial Sample Vol:  
 Sample Prep Vol:

## Mean Data: 2301

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	69765.4	99.826 %	0.0799			0.08%
Ar 420.067 R	1212060.0	99.587 %	0.2962			0.30%
Scandium-IS	2839800.6	99.517 %	1.3760			1.38%
Yttrium, 7440-65-5A	1512345.5	99.710 %	1.3629			1.37%
Yttrium, 7440-65-5R	80693.1	100.45 %	0.146			0.15%
Aluminum, 7429-90-5†	-11.5	-0.014 mg/L	0.0050	-0.014 mg/L	0.0050	36.13%
Antimony, 7440-36-0†	-8.5	-0.0014 mg/L	0.00049	-0.0014 mg/L	0.00049	35.51%
Arsenic, 7440-38-2†	0.3	0.0001 mg/L	0.00151	0.0001 mg/L	0.00151	>999.9%
Barium, 7440-39-3†	968.2	0.0051 mg/L	0.00002	0.0051 mg/L	0.00002	0.40%
QC value within limits for Barium, 7440-39-3		Recovery = 101.18%				
Beryllium, 7440-41-7†	179.1	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002	58.08%
Boron, 7440-42-8†	1518.2	0.0249 mg/L	0.00088	0.0249 mg/L	0.00088	3.52%
Cadmium, 7440-43-9†	254.3	0.0010 mg/L	0.00006	0.0010 mg/L	0.00006	6.28%
QC value within limits for Cadmium, 7440-43-9		Recovery = 100.32%				
Calcium, 7440-70-2†	-24.7	-0.013 mg/L	0.0005	-0.013 mg/L	0.0005	3.54%
Chromium, 7440-47-3†	644.3	0.0037 mg/L	0.00017	0.0037 mg/L	0.00017	4.51%
QC value within limits for Chromium, 7440-47-3		Recovery = 74.25%				
Cobalt, 7440-48-4†	54.9	0.0010 mg/L	0.00009	0.0010 mg/L	0.00009	9.38%
QC value within limits for Cobalt, 7440-48-4		Recovery = 95.49%				
Copper, 7440-50-8†	1762.0	0.0045 mg/L	0.00028	0.0045 mg/L	~0.00028	6.22%
QC value within limits for Copper, 7440-50-8		Recovery = 75.23%				
Iron, 7439-89-6†	41.0	0.0272 mg/L	0.00112	0.0272 mg/L	0.00112	4.13%
QC value within limits for Iron, 7439-89-6		Recovery = 54.45%				
Lead, 7439-92-1†	47.1	0.0041 mg/L	0.00071	0.0041 mg/L	0.00071	17.30%
QC value within limits for Lead, 7439-92-1		Recovery = 136.98%				
Lithium, 7439-93-2†	-9.4	-0.0002 mg/L	0.00023	-0.0002 mg/L	0.00023	154.93%
Magnesium, 7439-95-4†	2.0	0.0064 mg/L	0.00783	0.0064 mg/L	0.00783	121.61%
Manganese, 7439-96-5†	-103.9	0.000 mg/L	0.0000	0.000 mg/L	0.0000	20.22%
Molybdenum, 7439-98-7†	2.1	0.0001 mg/L	0.00014	0.0001 mg/L	0.00014	224.16%
Nickel, 7440-02-0†	269.0	0.0047 mg/L	0.00017	0.0047 mg/L	0.00017	3.55%
QC value within limits for Nickel, 7440-02-0		Recovery = 93.45%				
Potassium, 7440-09-7†	43.8	0.0192 mg/L	0.00423	0.0192 mg/L	0.00423	21.99%
Selenium, 7782-49-2†	50.8	0.0293 mg/L	0.00235	0.0293 mg/L	0.00235	8.03%
QC value within limits for Selenium, 7782-49-2		Recovery = 97.68%				
Silicon, 7440-21-3†	-2.6	-0.0029 mg/L	0.00496	-0.0029 mg/L	0.00496	173.68%
Silver, 7440-22-4†	107.3	0.0003 mg/L	0.00019	0.0003 mg/L	0.00019	56.54%
Sodium, 7440-23-5†	-299.0	-0.0524 mg/L	0.01490	-0.0524 mg/L	0.01490	28.41%
Strontium, 7440-24-6†	-140.9	-0.0003 mg/L	0.00008	-0.0003 mg/L	0.00008	25.76%
Thallium, 7440-28-0†	1.7	0.0003 mg/L	0.00189	0.0003 mg/L	0.00189	733.57%
Tin, 7440-31-5†	-11.5	-0.0012 mg/L	0.00050	-0.0012 mg/L	0.00050	43.01%
Titanium, 7440-32-6†	192.8	0.0003 mg/L	0.00012	0.0003 mg/L	0.00012	37.45%
Vanadium, 7440-62-2†	-7.9	-0.0001 mg/L	0.00105	-0.0001 mg/L	0.00105	>999.9%
Zinc, 7440-66-6†	1697.5	0.0087 mg/L	0.00042	0.0087 mg/L	0.00042	4.85%
QC value within limits for Zinc, 7440-66-6		Recovery = 86.72%				
Zirconium, 7440-67-7†	-166.6	-0.0003 mg/L	0.00030	-0.0003 mg/L	0.00030	89.00%

All analyte(s) passed QC.

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Sequence No.: 8  
 Sample ID: 2000  
 Analyst:  
 Logged In Analyst (Original) : met  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 5  
 Date Collected: 10/13/2006 10:29:01 AM  
 Data Type: Reprocessed on 10/16/2006 9:32:34 AM  
 Initial Sample Vol:  
 Sample Prep Vol:

## Mean Data: 2000

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	62099.1	88.856 %	0.2035			0.23%

**000055**

Ar 420.067 R	1157326.9	95.090 %	0.1395		0.15%
Scandium-IS	2750779.1	96.398 %	0.7234		0.75%
Yttrium,7440-65-5A	1435976.9	94.675 %	0.7025		0.74%
Yttrium,7440-65-5R	80489.1	100.20 %	0.970		0.97%
Aluminum,7429-90-5†	176956.2	213.5 mg/L	1.91	213.5 mg/L	1.91 0.89%
QC value within limits for Aluminum,7429-90-5			Recovery = 106.75%		
Antimony,7440-36-0†	6.7	-0.0035 mg/L	0.00011	-0.0035 mg/L	0.00011 3.21%
QC value within limits for Antimony,7440-36-0			Recovery = Not calculated		
Arsenic,7440-38-2†	-147.8	0.0041 mg/L	0.00122	0.0041 mg/L	0.00122 29.44%
QC value within limits for Arsenic,7440-38-2			Recovery = Not calculated		
Barium,7440-39-3†	680.2	-0.0001 mg/L	0.00011	-0.0001 mg/L	0.00011 87.54%
QC value within limits for Barium,7440-39-3			Recovery = Not calculated		
Beryllium,7440-41-7†	-734.0	0.0001 mg/L	0.00001	0.0001 mg/L	0.00001 17.89%
QC value within limits for Beryllium,7440-41-7			Recovery = Not calculated		
Boron,7440-42-8†	-1592.6	0.0187 mg/L	0.00074	0.0187 mg/L	0.00074 3.95%
QC value within limits for Boron,7440-42-8			Recovery = Not calculated		
Cadmium,7440-43-9†	381.5	0.0012 mg/L	0.00011	0.0012 mg/L	0.00011 8.84%
QC value within limits for Cadmium,7440-43-9			Recovery = Not calculated		
Calcium,7440-70-2†	393709.8	207.5 mg/L	2.07	207.5 mg/L	2.07 1.00%
QC value within limits for Calcium,7440-70-2			Recovery = 103.74%		
Chromium,7440-47-3†	1150.4	-0.0027 mg/L	0.00006	-0.0027 mg/L	0.00006 2.18%
QC value within limits for Chromium,7440-47-3			Recovery = Not calculated		
Cobalt,7440-48-4†	119.8	-0.0016 mg/L	0.00013	-0.0016 mg/L	0.00013 8.01%
QC value within limits for Cobalt,7440-48-4			Recovery = Not calculated		
Copper,7440-50-8†	1438.1	-0.0022 mg/L	0.00026	-0.0022 mg/L	0.00026 12.29%
QC value within limits for Copper,7440-50-8			Recovery = Not calculated		
Iron,7439-89-6†	123830.4	82.294 mg/L	0.7554	82.294 mg/L	0.7554 0.92%
QC value within limits for Iron,7439-89-6			Recovery = 102.87%		
Lead,7439-92-1†	-433.1	0.0031 mg/L	0.00142	0.0031 mg/L	0.00142 45.24%
QC value within limits for Lead,7439-92-1			Recovery = Not calculated		
Lithium,7439-93-2†	-19.0	0.0012 mg/L	0.00045	0.0012 mg/L	0.00045 36.90%
QC value within limits for Lithium,7439-93-2			Recovery = Not calculated		
Magnesium,7439-95-4†	65738.8	209.40 mg/L	0.518	209.40 mg/L	0.518 0.25%
QC value within limits for Magnesium,7439-95-4			Recovery = 104.70%		
Manganese, 7439-96-5†	2036.2	0.002 mg/L	0.0000	0.002 mg/L	0.0000 0.85%
QC value within limits for Manganese, 7439-96-5			Recovery = Not calculated		
Molybdenum,7439-98-7†	-16.5	0.0010 mg/L	0.00068	0.0010 mg/L	0.00068 71.48%
QC value within limits for Molybdenum,7439-98-7			Recovery = Not calculated		
Nickel,7440-02-0†	105.9	-0.0003 mg/L	0.00047	-0.0003 mg/L	0.00047 142.76%
QC value within limits for Nickel,7440-02-0			Recovery = Not calculated		
Potassium,7440-09-7†	117.0	0.0287 mg/L	0.01273	0.0287 mg/L	0.01273 44.40%
QC value within limits for Potassium,7440-09-7			Recovery = Not calculated		
Selenium,7782-49-2†	-134.2	-0.0122 mg/L	0.00619	-0.0122 mg/L	0.00619 50.56%
QC value within limits for Selenium,7782-49-2			Recovery = Not calculated		
Silicon,7440-21-3†	86.6	-0.0016 mg/L	0.00525	-0.0016 mg/L	0.00525 331.57%
QC value within limits for Silicon,7440-21-3			Recovery = Not calculated		
Silver,7440-22-4†	-9180.9	-0.0003 mg/L	0.00039	-0.0003 mg/L	0.00039 128.84%
QC value within limits for Silver,7440-22-4			Recovery = Not calculated		
Sodium,7440-23-5†	649.8	0.0804 mg/L	0.00963	0.0804 mg/L	0.00963 11.98%
QC value within limits for Sodium,7440-23-5			Recovery = Not calculated		
Strontium,7440-24-6†	310.9	0.0022 mg/L	0.00007	0.0022 mg/L	0.00007 3.05%
QC value within limits for Strontium,7440-24-6			Recovery = Not calculated		
Thallium,7440-28-0†	-23.9	0.0001 mg/L	0.00181	0.0001 mg/L	0.00181 >999.9%
QC value within limits for Thallium,7440-28-0			Recovery = Not calculated		
Tin,7440-31-5†	-237.4	-0.0208 mg/L	0.00237	-0.0208 mg/L	0.00237 11.42%
QC value within limits for Tin,7440-31-5			Recovery = Not calculated		
Titanium,7440-32-6†	376.4	0.0005 mg/L	0.00020	0.0005 mg/L	0.00020 41.91%
QC value within limits for Titanium,7440-32-6			Recovery = Not calculated		
Vanadium,7440-62-2†	-2459.8	-0.0188 mg/L	0.00024	-0.0188 mg/L	0.00024 1.25%
QC value within limits for Vanadium,7440-62-2			Recovery = Not calculated		
Zinc,7440-66-6†	2424.2	0.0002 mg/L	0.00027	0.0002 mg/L	0.00027 143.22%
QC value within limits for Zinc,7440-66-6			Recovery = Not calculated		
Zirconium,7440-67-7†	-5821.5	-0.0093 mg/L	0.00004	-0.0093 mg/L	0.00004 0.42%
QC value within limits for Zirconium,7440-67-7			Recovery = Not calculated		
All analyte(s) passed QC.					

CNB 10.16.06

Sequence No.: 9

Autosampler Location: 5

Sample ID: 2000

Date Collected: 10/13/2006 10:42:17 AM

Analyst:

Data Type: Reprocessed on 10/16/2006 9:32:36 AM

Logged In Analyst (Original) : met

000056

Initial Sample Wt:  
Dilution:

Initial Sample Vol:  
Sample Prep Vol:

## Mean Data: 2000

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	61990.6	88.701 %	0.0972			0.11%
Ar 420.067 R	1154021.5	94.818 %	0.2112			0.22%
Scandium-IS	2790169.9	97.778 %	1.2939			1.32%
Yttrium,7440-65-5A	1457087.4	96.067 %	1.2774			1.33%
Yttrium,7440-65-5R	79011.1	98.358 %	0.3224			0.33%
Aluminum,7429-90-5†	180525.5	217.8 mg/L	1.40	217.8 mg/L	1.40	0.64%
QC value within limits for Aluminum,7429-90-5			Recovery = 108.91%			
Antimony,7440-36-0†	-1.7	-0.0049 mg/L	0.00072	-0.0049 mg/L	0.00072	14.70%
QC value within limits for Antimony,7440-36-0			Recovery = Not calculated			
Arsenic,7440-38-2†	-146.1	0.0054 mg/L	0.00131	0.0054 mg/L	0.00131	24.13%
QC value within limits for Arsenic,7440-38-2			Recovery = Not calculated			
Barium,7440-39-3†	670.8	-0.0002 mg/L	0.00010	-0.0002 mg/L	0.00010	44.85%
QC value within limits for Barium,7440-39-3			Recovery = Not calculated			
Beryllium,7440-41-7†	-805.9	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002	43.36%
QC value within limits for Beryllium,7440-41-7			Recovery = Not calculated			
Boron,7440-42-8†	-2249.6	0.0088 mg/L	0.00027	0.0088 mg/L	0.00027	3.05%
QC value within limits for Boron,7440-42-8			Recovery = Not calculated			
Cadmium,7440-43-9†	373.4	0.0012 mg/L	0.00014	0.0012 mg/L	0.00014	11.30%
QC value within limits for Cadmium,7440-43-9			Recovery = Not calculated			
Calcium,7440-70-2†	401532.5	211.6 mg/L	1.33	211.6 mg/L	1.33	0.63%
QC value within limits for Calcium,7440-70-2			Recovery = 105.80%			
Chromium,7440-47-3†	1152.7	-0.0027 mg/L	0.00010	-0.0027 mg/L	0.00010	3.75%
QC value within limits for Chromium,7440-47-3			Recovery = Not calculated			
Cobalt,7440-48-4†	113.8	-0.0018 mg/L	0.00013	-0.0018 mg/L	0.00013	7.33%
QC value within limits for Cobalt,7440-48-4			Recovery = Not calculated			
Copper,7440-50-8†	1412.2	-0.0023 mg/L	0.00041	-0.0023 mg/L	0.00041	18.25%
QC value within limits for Copper,7440-50-8			Recovery = Not calculated			
Iron,7439-89-6†	126223.7	83.885 mg/L	0.5983	83.885 mg/L	0.5983	0.71%
QC value within limits for Iron,7439-89-6			Recovery = 104.86%			
Lead,7439-92-1†	-431.4	0.0042 mg/L	0.00081	0.0042 mg/L	0.00081	19.52%
QC value within limits for Lead,7439-92-1			Recovery = Not calculated			
Lithium,7439-93-2†	-26.4	0.0011 mg/L	0.00070	0.0011 mg/L	0.00070	61.90%
QC value within limits for Lithium,7439-93-2			Recovery = Not calculated			
Magnesium,7439-95-4†	65667.8	209.18 mg/L	0.190	209.18 mg/L	0.190	0.09%
QC value within limits for Magnesium,7439-95-4			Recovery = 104.59%			
Manganese, 7439-96-5†	1944.9	0.002 mg/L	0.0000	0.002 mg/L	0.0000	0.27%
QC value within limits for Manganese, 7439-96-5			Recovery = Not calculated			
Molybdenum,7439-98-7†	-21.6	0.0008 mg/L	0.00011	0.0008 mg/L	0.00011	13.82%
QC value within limits for Molybdenum,7439-98-7			Recovery = Not calculated			
Nickel,7440-02-0†	132.3	0.0001 mg/L	0.00013	0.0001 mg/L	0.00013	141.75%
QC value within limits for Nickel,7440-02-0			Recovery = Not calculated			
Potassium,7440-09-7†	10.0	-0.0187 mg/L	0.02266	-0.0187 mg/L	0.02266	121.01%
QC value within limits for Potassium,7440-09-7			Recovery = Not calculated			
Selenium,7782-49-2†	-136.1	-0.0119 mg/L	0.00434	-0.0119 mg/L	0.00434	36.31%
QC value within limits for Selenium,7782-49-2			Recovery = Not calculated			
Silicon,7440-21-3†	89.2	0.0016 mg/L	0.00071	0.0016 mg/L	0.00071	45.23%
QC value within limits for Silicon,7440-21-3			Recovery = Not calculated			
Silver,7440-22-4†	-9114.4	0.0004 mg/L	0.00024	0.0004 mg/L	0.00024	52.80%
QC value within limits for Silver,7440-22-4			Recovery = Not calculated			
Sodium,7440-23-5†	595.5	0.0704 mg/L	0.00853	0.0704 mg/L	0.00853	12.12%
QC value within limits for Sodium,7440-23-5			Recovery = Not calculated			
Strontium,7440-24-6†	3079.1	0.0021 mg/L	0.00009	0.0021 mg/L	0.00009	4.22%
QC value within limits for Strontium,7440-24-6			Recovery = Not calculated			
Thallium,7440-28-0†	-19.4	0.0009 mg/L	0.00138	0.0009 mg/L	0.00138	154.58%
QC value within limits for Thallium,7440-28-0			Recovery = Not calculated			
Tin,7440-31-5†	-247.4	-0.0217 mg/L	0.00084	-0.0217 mg/L	0.00084	3.87%
QC value within limits for Tin,7440-31-5			Recovery = Not calculated			
Titanium,7440-32-6†	326.3	0.0004 mg/L	0.00016	0.0004 mg/L	0.00016	41.87%
QC value within limits for Titanium,7440-32-6			Recovery = Not calculated			
Vanadium,7440-62-2†	-2539.5	-0.0196 mg/L	0.00031	-0.0196 mg/L	0.00031	1.57%
QC value within limits for Vanadium,7440-62-2			Recovery = Not calculated			
Zinc,7440-66-6†	2458.7	0.0002 mg/L	0.00042	0.0002 mg/L	0.00042	210.46%
QC value within limits for Zinc,7440-66-6			Recovery = Not calculated			
Zirconium,7440-67-7†	-5780.2	-0.0092 mg/L	0.00011	-0.0092 mg/L	0.00011	1.19%

000057

QC value within limits for Zirconium,7440-67-7 Recovery = Not calculated  
All analyte(s) passed QC.

Sequence No.: 10

Autosampler Location: 6

Sample ID: 2100

Date Collected: 10/13/2006 10:48:59 AM

Analyst:

Data Type: Reprocessed on 10/16/2006 9:32:38 AM

Logged In Analyst (Original) : met

Initial Sample Vol:

Initial Sample Wt:

Dilution:

Sample Prep Vol:

## Mean Data: 2100

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	62190.9	88.988 %	0.0902			0.10%
Ar 420.067 R	1155276.5	94.921 %	0.1656			0.17%
Scandium-IS	2741044.2	96.057 %	0.5658			0.59%
Yttrium,7440-65-5A	1434256.8	94.562 %	0.6389			0.68%
Yttrium,7440-65-5R	79973.1	99.556 %	0.6560			0.66%
Aluminum,7429-90-5†	174588.2	210.7 mg/L	0.91	210.7 mg/L	0.91	0.43%
QC value within limits for Aluminum,7429-90-5			Recovery = 105.33%			
Antimony,7440-36-0†	6823.1	1.0578 mg/L	0.01446	1.0578 mg/L	0.01446	1.37%
QC value within limits for Antimony,7440-36-0			Recovery = 105.78%			
Arsenic,7440-38-2†	3613.8	1.0398 mg/L	0.01372	1.0398 mg/L	0.01372	1.32%
QC value within limits for Arsenic,7440-38-2			Recovery = 103.98%			
Barium,7440-39-3†	102150.1	0.5298 mg/L	0.00102	0.5298 mg/L	0.00102	0.19%
QC value within limits for Barium,7440-39-3			Recovery = 105.96%			
Beryllium,7440-41-7†	2284989.8	0.5278 mg/L	0.00048	0.5278 mg/L	0.00048	0.09%
QC value within limits for Beryllium,7440-41-7			Recovery = 105.55%			
Boron,7440-42-8†	62216.8	1.0644 mg/L	0.00314	1.0644 mg/L	0.00314	0.30%
QC value within limits for Boron,7440-42-8			Recovery = 106.44%			
Cadmium,7440-43-9†	250326.7	0.9934 mg/L	0.00149	0.9934 mg/L	0.00149	0.15%
QC value within limits for Cadmium,7440-43-9			Recovery = 99.34%			
Calcium,7440-70-2†	385792.9	203.3 mg/L	0.64	203.3 mg/L	0.64	0.31%
QC value within limits for Calcium,7440-70-2			Recovery = 101.65%			
Chromium,7440-47-3†	91950.7	0.5213 mg/L	0.00024	0.5213 mg/L	0.00024	0.05%
QC value within limits for Chromium,7440-47-3			Recovery = 104.26%			
Cobalt,7440-48-4†	28604.2	0.4976 mg/L	0.00485	0.4976 mg/L	0.00485	0.98%
QC value within limits for Cobalt,7440-48-4			Recovery = 99.52%			
Copper,7440-50-8†	213333.9	0.5398 mg/L	0.00163	0.5398 mg/L	0.00163	0.30%
QC value within limits for Copper,7440-50-8			Recovery = 107.95%			
Iron,7439-89-6†	121556.9	80.782 mg/L	0.2593	80.782 mg/L	0.2593	0.32%
QC value within limits for Iron,7439-89-6			Recovery = 100.98%			
Lead,7439-92-1†	11138.9	1.0141 mg/L	0.01236	1.0141 mg/L	0.01236	1.22%
QC value within limits for Lead,7439-92-1			Recovery = 101.41%			
Lithium,7439-93-2†	-56.2	0.0007 mg/L	0.00066	0.0007 mg/L	0.00066	97.69%
Magnesium,7439-95-4†	64360.0	205.01 mg/L	0.521	205.01 mg/L	0.521	0.25%
QC value within limits for Magnesium,7439-95-4			Recovery = 102.50%			
Manganese, 7439-96-5†	429866.5	0.526 mg/L	0.0008	0.526 mg/L	0.0008	0.15%
QC value within limits for Manganese, 7439-96-5			Recovery = 105.20%			
Molybdenum,7439-98-7†	32249.7	0.9974 mg/L	0.00967	0.9974 mg/L	0.00967	0.97%
QC value within limits for Molybdenum,7439-98-7			Recovery = 99.74%			
Nickel,7440-02-0†	55696.1	0.9656 mg/L	0.01027	0.9656 mg/L	0.01027	1.06%
QC value within limits for Nickel,7440-02-0			Recovery = 96.56%			
Potassium,7440-09-7†	83.5	0.0140 mg/L	0.04572	0.0140 mg/L	0.04572	327.32%
Selenium,7782-49-2†	1699.3	1.0434 mg/L	0.01734	1.0434 mg/L	0.01734	1.66%
QC value within limits for Selenium,7782-49-2			Recovery = 104.34%			
Silicon,7440-21-3†	178.9	0.1011 mg/L	0.00340	0.1011 mg/L	0.00340	3.36%
Silver,7440-22-4†	338512.2	1.0910 mg/L	0.00189	1.0910 mg/L	0.00189	0.17%
QC value within limits for Silver,7440-22-4			Recovery = 109.10%			
Sodium,7440-23-5†	6726.4	1.1454 mg/L	0.00900	1.1454 mg/L	0.00900	0.79%
Strontium,7440-24-6†	2976.0	0.0020 mg/L	0.00002	0.0020 mg/L	0.00002	1.14%
Thallium,7440-28-0†	7105.2	1.0722 mg/L	0.00935	1.0722 mg/L	0.00935	0.87%
QC value within limits for Thallium,7440-28-0			Recovery = 107.22%			
Tin,7440-31-5†	-257.3	-0.0227 mg/L	0.00409	-0.0227 mg/L	0.00409	18.02%
Titanium,7440-32-6†	199.0	0.0001 mg/L	0.00016	0.0001 mg/L	0.00016	244.69%
Vanadium,7440-62-2†	62252.7	0.5088 mg/L	0.00096	0.5088 mg/L	0.00096	0.19%
QC value within limits for Vanadium,7440-62-2			Recovery = 101.76%			
Zinc,7440-66-6†	202628.3	1.0208 mg/L	0.00168	1.0208 mg/L	0.00168	0.17%
QC value within limits for Zinc,7440-66-6			Recovery = 102.08%			

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Zirconium,7440-67-7† -4519.8 -0.0067 mg/L 0.00001 -0.0067 mg/L 0.00001 0.17%  
All analyte(s) passed QC.

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Sequence No.: 11  
Sample ID: 1800  
Analyst:  
Logged In Analyst (Original) : met  
Initial Sample Wt:  
Dilution:

Autosampler Location: 7  
Date Collected: 10/13/2006 10:54:56 AM  
Data Type: Reprocessed on 10/16/2006 9:32:40 AM  
Initial Sample Vol:  
Sample Prep Vol:

## Mean Data: 1800

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	68709.7	98.315 %	0.2619			0.27%
Ar 420.067 R	1211133.3	99.510 %	0.2151			0.22%
Scandium-IS	2841002.3	99.559 %	0.4416			0.44%
Yttrium,7440-65-5A	1503972.1	99.158 %	0.4602			0.46%
Yttrium,7440-65-5R	80460.3	100.16 %	1.777			1.77%
Aluminum,7429-90-5†	4289.1	5.178 mg/L	0.0718	5.178 mg/L	0.0718	1.39%
QC value within limits for Aluminum, 7429-90-5		Recovery = 103.56%				
Antimony,7440-36-0†	3279.5	0.5071 mg/L	0.00074	0.5071 mg/L	0.00074	0.15%
QC value within limits for Antimony,7440-36-0		Recovery = 101.43%				
Arsenic,7440-38-2†	1894.3	0.5291 mg/L	0.00250	0.5291 mg/L	0.00250	0.47%
QC value within limits for Arsenic,7440-38-2		Recovery = 105.82%				
Barium,7440-39-3†	96925.8	0.5059 mg/L	0.00418	0.5059 mg/L	0.00418	0.83%
QC value within limits for Barium, 7440-39-3		Recovery = 101.19%				
Beryllium,7440-41-7†	2243696.5	0.5179 mg/L	0.00016	0.5179 mg/L	0.00016	0.03%
QC value within limits for Beryllium,7440-41-7		Recovery = 103.58%				
Boron,7440-42-8†	153648.8	2.5228 mg/L	0.01539	2.5228 mg/L	0.01539	0.61%
QC value within limits for Boron,7440-42-8		Recovery = 100.91%				
Cadmium,7440-43-9†	126855.5	0.5031 mg/L	0.00414	0.5031 mg/L	0.00414	0.82%
QC value within limits for Cadmium,7440-43-9		Recovery = 100.62%				
Calcium,7440-70-2†	9833.5	5.180 mg/L	0.0671	5.180 mg/L	0.0671	1.30%
QC value within limits for Calcium,7440-70-2		Recovery = 103.61%				
Chromium,7440-47-3†	88441.2	0.5113 mg/L	0.00374	0.5113 mg/L	0.00374	0.73%
QC value within limits for Chromium,7440-47-3		Recovery = 102.26%				
Cobalt,7440-48-4†	29543.1	0.5167 mg/L	0.00247	0.5167 mg/L	0.00247	0.48%
QC value within limits for Cobalt,7440-48-4		Recovery = 103.34%				
Copper,7440-50-8†	199349.5	0.5095 mg/L	0.00492	0.5095 mg/L	0.00492	0.97%
QC value within limits for Copper,7440-50-8		Recovery = 101.89%				
Iron,7439-89-6†	7868.8	5.2293 mg/L	0.06636	5.2293 mg/L	0.06636	1.27%
QC value within limits for Iron,7439-89-6		Recovery = 104.59%				
Lead,7439-92-1†	5894.0	0.5154 mg/L	0.00311	0.5154 mg/L	0.00311	0.60%
QC value within limits for Lead,7439-92-1		Recovery = 103.08%				
Lithium,7439-93-2†	32576.7	0.5209 mg/L	0.00285	0.5209 mg/L	0.00285	0.55%
QC value within limits for Lithium,7439-93-2		Recovery = 104.19%				
Magnesium,7439-95-4†	1637.6	5.2174 mg/L	0.09901	5.2174 mg/L	0.09901	1.90%
QC value within limits for Magnesium,7439-95-4		Recovery = 104.35%				
Manganese, 7439-96-5†	415853.3	0.509 mg/L	0.0039	0.509 mg/L	0.0039	0.77%
QC value within limits for Manganese, 7439-96-5		Recovery = 101.89%				
Molybdenum,7439-98-7†	16512.6	0.5099 mg/L	0.00160	0.5099 mg/L	0.00160	0.31%
QC value within limits for Molybdenum,7439-98-7		Recovery = 101.99%				
Nickel,7440-02-0†	29533.5	0.5125 mg/L	0.00254	0.5125 mg/L	0.00254	0.50%
QC value within limits for Nickel,7440-02-0		Recovery = 102.50%				
Potassium,7440-09-7†	23815.1	10.471 mg/L	0.0712	10.471 mg/L	0.0712	0.68%
QC value within limits for Potassium,7440-09-7		Recovery = 104.71%				
Selenium,7782-49-2†	896.2	0.5197 mg/L	0.00481	0.5197 mg/L	0.00481	0.92%
QC value within limits for Selenium,7782-49-2		Recovery = 103.94%				
Silicon,7440-21-3†	470.1	0.5132 mg/L	0.00983	0.5132 mg/L	0.00983	1.92%
QC value within limits for Silicon,7440-21-3		Recovery = 102.63%				
Silver,7440-22-4†	164471.4	0.5216 mg/L	0.00402	0.5216 mg/L	0.00402	0.77%
QC value within limits for Silver,7440-22-4		Recovery = 104.32%				
Sodium,7440-23-5†	118280.2	20.740 mg/L	0.0847	20.740 mg/L	0.0847	0.41%
QC value within limits for Sodium,7440-23-5		Recovery = 103.70%				
Strontium,7440-24-6†	241353.1	0.5069 mg/L	0.00922	0.5069 mg/L	0.00922	1.82%
QC value within limits for Strontium,7440-24-6		Recovery = 101.39%				
Thallium,7440-28-0†	3410.4	0.5158 mg/L	0.00309	0.5158 mg/L	0.00309	0.60%
QC value within limits for Thallium,7440-28-0		Recovery = 103.16%				
Tin,7440-31-5†	4952.8	0.5041 mg/L	0.00244	0.5041 mg/L	0.00244	0.48%

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QC value within limits for Tin, 7440-31-5 Recovery = 100.83%  
 Titanium, 7440-32-6† 294110.2 0.5076 mg/L 0.00381 0.5076 mg/L 0.00381 0.75%  
 QC value within limits for Titanium, 7440-32-6 Recovery = 101.52%  
 Vanadium, 7440-62-2† 61794.7 0.5037 mg/L 0.00495 0.5037 mg/L 0.00495 0.98%  
 QC value within limits for Vanadium, 7440-62-2 Recovery = 100.74%  
 Zinc, 7440-66-6† 100174.7 0.5095 mg/L 0.00422 0.5095 mg/L 0.00422 0.83%  
 QC value within limits for Zinc, 7440-66-6 Recovery = 101.91%  
 Zirconium, 7440-67-7† 248081.3 0.5069 mg/L 0.00458 0.5069 mg/L 0.00458 0.90%  
 QC value within limits for Zirconium, 7440-67-7 Recovery = 101.38%  
 All analyte(s) passed QC.

Mean Data: 1900

Analyte	Mean Corrected		Calib		Sample			Std.Dev.	RSD
	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.				
Ar 363.268 A	69949.8	100.09 %	0.532					0.53%	
Ar 420.067 R	1213085.4	99.671 %	0.4632					0.46%	
Scandium-IS	2854748.8	100.04 %	0.305					0.30%	
Yttrium, 7440-65-5A	1518744.2	100.13 %	0.325					0.32%	
Yttrium, 7440-65-5R	79995.3	99.583 %	1.0067					1.01%	
Aluminum, 7429-90-5†	6.1	0.007 mg/L	0.0088	0.007 mg/L		0.0088	119.82%		
QC value within limits for Aluminum, 7429-90-5			Recovery = Not calculated						
Antimony, 7440-36-0†	-4.3	-0.0006 mg/L	0.00025	-0.0006 mg/L		0.00025	38.59%		
QC value within limits for Antimony, 7440-36-0			Recovery = Not calculated						
Arsenic, 7440-38-2†	2.7	0.0007 mg/L	0.00191	0.0007 mg/L		0.00191	268.62%		
QC value within limits for Arsenic, 7440-38-2			Recovery = Not calculated						
Barium, 7440-39-3†	16.5	0.0001 mg/L	0.00002	0.0001 mg/L		0.00002	26.90%		
QC value within limits for Barium, 7440-39-3			Recovery = Not calculated						
Beryllium, 7440-41-7†	338.5	0.0001 mg/L	0.00002	0.0001 mg/L		0.00002	28.00%		
QC value within limits for Beryllium, 7440-41-7			Recovery = Not calculated						
Boron, 7440-42-8†	2545.1	0.0417 mg/L	0.00335	0.0417 mg/L		0.00335	8.03%		
QC value within limits for Boron, 7440-42-8			Recovery = Not calculated						
Cadmium, 7440-43-9†	1.9	0.0000 mg/L	0.00006	0.0000 mg/L		0.00006	738.09%		
QC value within limits for Cadmium, 7440-43-9			Recovery = Not calculated						
Calcium, 7440-70-2†	-28.3	-0.015 mg/L	0.0040	-0.015 mg/L		0.0040	26.73%		
QC value within limits for Calcium, 7440-70-2			Recovery = Not calculated						
Chromium, 7440-47-3†	-260.7	-0.0015 mg/L	0.00009	-0.0015 mg/L		0.00009	5.86%		
QC value within limits for Chromium, 7440-47-3			Recovery = Not calculated						
Cobalt, 7440-48-4†	-6.3	-0.0001 mg/L	0.00026	-0.0001 mg/L		0.00026	227.38%		
QC value within limits for Cobalt, 7440-48-4			Recovery = Not calculated						
Copper, 7440-50-8†	349.0	0.0009 mg/L	0.00015	0.0009 mg/L		0.00015	16.89%		
QC value within limits for Copper, 7440-50-8			Recovery = Not calculated						
Iron, 7439-89-6†	-12.4	-0.0083 mg/L	0.00136	-0.0083 mg/L		0.00136	16.41%		
QC value within limits for Iron, 7439-89-6			Recovery = Not calculated						
Lead, 7439-92-1†	0.4	0.0000 mg/L	0.00071	0.0000 mg/L		0.00071	>999.9%		
QC value within limits for Lead, 7439-92-1			Recovery = Not calculated						
Lithium, 7439-93-2†	-25.9	-0.0004 mg/L	0.00025	-0.0004 mg/L		0.00025	59.96%		
QC value within limits for Lithium, 7439-93-2			Recovery = Not calculated						
Magnesium, 7439-95-4†	5.2	0.0164 mg/L	0.03886	0.0164 mg/L		0.03886	236.82%		
QC value within limits for Magnesium, 7439-95-4			Recovery = Not calculated						
Manganese, 7439-96-5†	-166.6	0.000 mg/L	0.0000	0.000 mg/L		0.0000	11.48%		
QC value within limits for Manganese, 7439-96-5			Recovery = Not calculated						
Molybdenum, 7439-98-7†	12.3	0.0004 mg/L	0.00020	0.0004 mg/L		0.00020	52.32%		
QC value within limits for Molybdenum, 7439-98-7			Recovery = Not calculated						
Nickel, 7440-02-0†	49.6	0.0009 mg/L	0.00017	0.0009 mg/L		0.00017	20.25%		
QC value within limits for Nickel, 7440-02-0			Recovery = Not calculated						
Potassium, 7440-09-7†	62.6	0.0275 mg/L	0.02053	0.0275 mg/L		0.02053	74.56%		
QC value within limits for Potassium, 7440-09-7			Recovery = Not calculated						
Selenium, 7782-49-2†	0.7	0.0004 mg/L	0.00206	0.0004 mg/L		0.00206	484.10%		
QC value within limits for Selenium, 7782-49-2			Recovery = Not calculated						
Silicon, 7440-21-3†	1.4	0.0015 mg/L	0.00403	0.0015 mg/L		0.00403	272.96%		
QC value within limits for Silicon, 7440-21-3			Recovery = Not calculated						
Silver, 7440-22-4†	112.9	0.0003 mg/L	0.00010	0.0003 mg/L		0.00010	28.22%		

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QC value within limits for Silver, 7440-22-4 Recovery = Not calculated  
 Sodium, 7440-23-5† -292.4 -0.0513 mg/L 0.00095 -0.0513 mg/L 0.00095 1.85%  
 QC value within limits for Sodium, 7440-23-5 Recovery = Not calculated  
 Strontium, 7440-24-6† -209.5 -0.0004 mg/L 0.00008 -0.0004 mg/L 0.00008 17.60%  
 QC value within limits for Strontium, 7440-24-6 Recovery = Not calculated  
 Thallium, 7440-28-0† 8.4 0.0013 mg/L 0.00129 0.0013 mg/L 0.00129 102.36%  
 QC value within limits for Thallium, 7440-28-0 Recovery = Not calculated  
 Tin, 7440-31-5† -18.6 -0.0019 mg/L 0.00084 -0.0019 mg/L 0.00084 44.52%  
 QC value within limits for Tin, 7440-31-5 Recovery = Not calculated  
 Titanium, 7440-32-6† 276.9 0.0005 mg/L 0.00004 0.0005 mg/L 0.00004 7.94%  
 QC value within limits for Titanium, 7440-32-6 Recovery = Not calculated  
 Vanadium, 7440-62-2† -70.8 -0.0006 mg/L 0.00008 -0.0006 mg/L 0.00008 14.19%  
 QC value within limits for Vanadium, 7440-62-2 Recovery = Not calculated  
 Zinc, 7440-66-6† -88.9 -0.0005 mg/L 0.00005 -0.0005 mg/L 0.00005 11.70%  
 QC value within limits for Zinc, 7440-66-6 Recovery = Not calculated  
 Zirconium, 7440-67-7† 90.4 0.0002 mg/L 0.00014 0.0002 mg/L 0.00014 74.68%  
 QC value within limits for Zirconium, 7440-67-7 Recovery = Not calculated  
 All analyte(s) passed QC.

Sequence No.: 13

Sample ID: 417616

Analyst:

Logged In Analyst (Original) : met

Initial Sample Wt:

Dilution: 1X

Autosampler Location: 17

Date Collected: 10/13/2006 11:21:00 AM

Data Type: Reprocessed on 10/16/2006 9:32:43 AM

Initial Sample Vol:

Sample Prep Vol:

## Mean Data: 417616

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	70455.3	100.81 %	0.047			0.05%
Ar 420.067 R	1220069.6	100.24 %	0.210			0.21%
Scandium-IS	2894453.9	101.43 %	1.629			1.61%
Yttrium, 7440-65-5A	1540597.4	101.57 %	1.629			1.60%
Yttrium, 7440-65-5R	80864.0	100.66 %	0.119			0.12%
Aluminum, 7429-90-5†	-2.1	-0.003 mg/L	0.0031	-0.003 mg/L	0.0031	122.54%
Antimony, 7440-36-0†	-9.5	-0.0015 mg/L	0.00138	-0.0015 mg/L	0.00138	94.04%
Arsenic, 7440-38-2†	12.3	0.0033 mg/L	0.00191	0.0033 mg/L	0.00191	57.28%
Barium, 7440-39-3†	-17.6	-0.0001 mg/L	0.00005	-0.0001 mg/L	0.00005	52.07%
Beryllium, 7440-41-7†	158.6	0.0000 mg/L	0.00003	0.0000 mg/L	0.00003	73.94%
Boron, 7440-42-8†	550.6	0.0090 mg/L	0.00027	0.0090 mg/L	0.00027	3.04%
Cadmium, 7440-43-9†	-20.4	-0.0001 mg/L	0.00006	-0.0001 mg/L	0.00006	74.83%
Calcium, 7440-70-2†	-183.6	-0.097 mg/L	0.0032	-0.097 mg/L	0.0032	3.33%
Chromium, 7440-47-3†	-354.6	-0.0021 mg/L	0.00014	-0.0021 mg/L	0.00014	6.97%
Cobalt, 7440-48-4†	-14.2	-0.0002 mg/L	0.00024	-0.0002 mg/L	0.00024	97.13%
Copper, 7440-50-8†	-71.3	-0.0002 mg/L	0.00061	-0.0002 mg/L	0.00061	342.90%
Iron, 7439-89-6†	-50.0	-0.0333 mg/L	0.00209	-0.0333 mg/L	0.00209	6.27%
Lead, 7439-92-1†	6.3	0.0005 mg/L	0.00140	0.0005 mg/L	0.00140	255.55%
Lithium, 7439-93-2†	-98.1	-0.0016 mg/L	0.00045	-0.0016 mg/L	0.00045	28.94%
Magnesium, 7439-95-4†	4.3	0.0138 mg/L	0.01143	0.0138 mg/L	0.01143	82.91%
Manganese, 7439-96-5†	-821.9	-0.001 mg/L	0.00000	-0.001 mg/L	0.00000	1.90%
Molybdenum, 7439-98-7†	5.6	0.0002 mg/L	0.00049	0.0002 mg/L	0.00049	283.81%
Nickel, 7440-02-0†	-0.5	0.0000 mg/L	0.00033	0.0000 mg/L	0.00033	>999.9%
Potassium, 7440-09-7†	25.8	0.0113 mg/L	0.02858	0.0113 mg/L	0.02858	252.30%
Selenium, 7782-49-2†	-4.7	-0.0027 mg/L	0.00131	-0.0027 mg/L	0.00131	47.75%
Silicon, 7440-21-3†	-2.3	-0.0026 mg/L	0.00305	-0.0026 mg/L	0.00305	118.60%
Silver, 7440-22-4†	170.8	0.0005 mg/L	0.00009	0.0005 mg/L	0.00009	17.33%
Sodium, 7440-23-5†	-304.0	-0.0533 mg/L	0.00506	-0.0533 mg/L	0.00506	9.50%
Strontium, 7440-24-6†	-440.8	-0.0009 mg/L	0.00006	-0.0009 mg/L	0.00006	6.49%
Thallium, 7440-28-0†	-6.8	-0.0010 mg/L	0.00125	-0.0010 mg/L	0.00125	121.86%
Tin, 7440-31-5†	-33.8	-0.0034 mg/L	0.00039	-0.0034 mg/L	0.00039	11.45%
Titanium, 7440-32-6†	262.1	0.0005 mg/L	0.00018	0.0005 mg/L	0.00018	39.37%
Vanadium, 7440-62-2†	4.9	0.0000 mg/L	0.00018	0.0000 mg/L	0.00018	421.14%
Zinc, 7440-66-6†	87.6	0.0005 mg/L	0.00006	0.0005 mg/L	0.00006	12.29%
Zirconium, 7440-67-7†	-343.7	-0.0007 mg/L	0.00014	-0.0007 mg/L	0.00014	20.35%

Sequence No.: 14

Sample ID: 417617

Analyst:

Autosampler Location: 18

Date Collected: 10/13/2006 11:27:48 AM

Data Type: Reprocessed on 10/16/2006 9:32:45 AM

000061

Logged In Analyst (Original) : met  
 Initial Sample Wt:  
 Dilution: 1X

Initial Sample Vol:  
 Sample Prep Vol:

Mean Data: 417617

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	70109.8	100.32 %	0.066			0.07%
Ar 420.067 R	1218518.9	100.12 %	0.131			0.13%
Scandium-IS	2925398.2	102.52 %	0.694			0.68%
Yttrium, 7440-65-5A	1547760.4	102.04 %	0.644			0.63%
Yttrium, 7440-65-5R	82322.5	102.48 %	1.800			1.76%
Aluminum, 7429-90-5†	4026.6	4.861 mg/L	0.0544	4.861 mg/L	0.0544	1.12%
Antimony, 7440-36-0†	3092.6	0.4782 mg/L	0.00226	0.4782 mg/L	0.00226	0.47%
Arsenic, 7440-38-2†	1781.1	0.4976 mg/L	0.00208	0.4976 mg/L	0.00208	0.42%
Barium, 7440-39-3†	92494.0	0.4828 mg/L	0.00135	0.4828 mg/L	0.00135	0.28%
Beryllium, 7440-41-7†	2085291.0	0.4813 mg/L	0.00067	0.4813 mg/L	0.00067	0.14%
Boron, 7440-42-8†	147345.3	2.4192 mg/L	0.00259	2.4192 mg/L	0.00259	0.11%
Cadmium, 7440-43-9†	122169.6	0.4845 mg/L	0.00164	0.4845 mg/L	0.00164	0.34%
Calcium, 7440-70-2†	9109.0	4.799 mg/L	0.0544	4.799 mg/L	0.0544	1.13%
Chromium, 7440-47-3†	84308.7	0.4874 mg/L	0.00015	0.4874 mg/L	0.00015	0.03%
Cobalt, 7440-48-4†	27838.0	0.4869 mg/L	0.00256	0.4869 mg/L	0.00256	0.53%
Copper, 7440-50-8†	186165.2	0.4758 mg/L	0.00012	0.4758 mg/L	0.00012	0.02%
Iron, 7439-89-6†	7412.8	4.9262 mg/L	0.06005	4.9262 mg/L	0.06005	1.22%
Lead, 7439-92-1†	5561.5	0.4863 mg/L	0.00362	0.4863 mg/L	0.00362	0.74%
Lithium, 7439-93-2†	30449.0	0.4869 mg/L	0.00140	0.4869 mg/L	0.00140	0.29%
Magnesium, 7439-95-4†	1536.4	4.8950 mg/L	0.07009	4.8950 mg/L	0.07009	1.43%
Manganese, 7439-96-5†	394047.0	0.483 mg/L	0.0010	0.483 mg/L	0.0010	0.22%
Molybdenum, 7439-98-7†	15455.0	0.4773 mg/L	0.00243	0.4773 mg/L	0.00243	0.51%
Nickel, 7440-02-0†	27865.0	0.4835 mg/L	0.00170	0.4835 mg/L	0.00170	0.35%
Potassium, 7440-09-7†	22566.1	9.9214 mg/L	0.01974	9.9214 mg/L	0.01974	0.20%
Selenium, 7782-49-2†	862.4	0.5000 mg/L	0.00463	0.5000 mg/L	0.00463	0.93%
Silicon, 7440-21-3†	435.3	0.4752 mg/L	0.00859	0.4752 mg/L	0.00859	1.81%
Silver, 7440-22-4†	154179.4	0.4891 mg/L	0.00089	0.4891 mg/L	0.00089	0.18%
Sodium, 7440-23-5†	111295.0	19.515 mg/L	0.0914	19.515 mg/L	0.0914	0.47%
Strontium, 7440-24-6†	227430.0	0.4777 mg/L	0.00946	0.4777 mg/L	0.00946	1.98%
Thallium, 7440-28-0†	3196.7	0.4835 mg/L	0.00226	0.4835 mg/L	0.00226	0.47%
Tin, 7440-31-5†	4802.8	0.4889 mg/L	0.00292	0.4889 mg/L	0.00292	0.60%
Titanium, 7440-32-6†	281717.5	0.4862 mg/L	0.00069	0.4862 mg/L	0.00069	0.14%
Vanadium, 7440-62-2†	58771.3	0.4790 mg/L	0.00042	0.4790 mg/L	0.00042	0.09%
Zinc, 7440-66-6†	94866.9	0.4826 mg/L	0.00043	0.4826 mg/L	0.00043	0.09%
Zirconium, 7440-67-7†	1456.5	0.0024 mg/L	0.00050	0.0024 mg/L	0.00050	20.55%

Sequence No.: 15  
 Sample ID: 20610122401 D  
 Analyst:  
 Logged In Analyst (Original) : met  
 Initial Sample Wt:  
 Dilution: 2X

Autosampler Location: 19  
 Date Collected: 10/13/2006 11:34:31 AM  
 Data Type: Reprocessed on 10/16/2006 9:32:47 AM  
 Initial Sample Vol:  
 Sample Prep Vol:

Mean Data: 20610122401 D

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	59287.4	84.833 %	0.5310			0.63%
Ar 420.067 R	1061907.6	87.250 %	0.5544			0.64%
Scandium-IS	3100154.3	108.64 %	2.824			2.60%
Yttrium, 7440-65-5A	1585349.9	104.52 %	2.626			2.51%
Yttrium, 7440-65-5R	88853.0	110.61 %	5.633			5.09%
Aluminum, 7429-90-5†	-10.3	-0.008 mg/L	0.0121	-0.015 mg/L	0.0242	157.82%
Antimony, 7440-36-0†	0.5	-0.0011 mg/L	0.00070	-0.0022 mg/L	0.00140	63.25%
Arsenic, 7440-38-2†	48.2	0.0183 mg/L	0.00544	0.0367 mg/L	0.01089	29.68%
Barium, 7440-39-3†	12249.8	0.0618 mg/L	0.00147	0.1236 mg/L	0.00295	2.38%
Beryllium, 7440-41-7†	-593.6	-0.0001 mg/L	0.00002	-0.0003 mg/L	0.00003	11.96%
Boron, 7440-42-8†	102656.3	1.6809 mg/L	0.01068	3.3617 mg/L	0.02136	0.64%
Cadmium, 7440-43-9†	-362.4	-0.0015 mg/L	0.00011	-0.0029 mg/L	0.00021	7.34%
Calcium, 7440-70-2†	338203.1	178.2 mg/L	2.94	356.4 mg/L	5.89	1.65%
Chromium, 7440-47-3†	1800.5	-0.0174 mg/L	0.00107	-0.0348 mg/L	0.00213	6.13%
Cobalt, 7440-48-4†	-29.9	0.0002 mg/L	0.00037	0.0004 mg/L	0.00073	187.47%

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Copper, 7440-50-8†	3464.7	0.0007 mg/L	0.00008	0.0014 mg/L	0.00016	10.89%
Iron, 7439-89-6†	-38.6	-0.0255 mg/L	0.00355	-0.0509 mg/L	0.00711	13.96%
Lead, 7439-92-1†	-28.6	-0.0045 mg/L	0.00044	-0.0090 mg/L	0.00088	9.81%
Lithium, 7439-93-2†	7107.1	0.1155 mg/L	0.00087	0.2310 mg/L	0.00175	0.76%
Magnesium, 7439-95-4†	155232.7	494.39 mg/L	9.256	988.78 mg/L	18.513	1.87%
Manganese, 7439-96-5†	22509.4	0.027 mg/L	0.0006	0.053 mg/L	0.0012	2.32%
Molybdenum, 7439-98-7†	25.6	0.0003 mg/L	0.00031	0.0006 mg/L	0.00063	107.44%
Nickel, 7440-02-0†	39.9	0.0007 mg/L	0.00024	0.0014 mg/L	0.00048	34.54%
Potassium, 7440-09-7†	408179.0	179.48 mg/L	2.624	358.97 mg/L	5.248	1.46%
Selenium, 7782-49-2†	-2.8	-0.0097 mg/L	0.00356	-0.0195 mg/L	0.00712	36.52%
Silicon, 7440-21-3†	1104.9	0.9671 mg/L	0.01999	1.9343 mg/L	0.03999	2.07%
Silver, 7440-22-4†	798.2	0.0009 mg/L	0.00018	0.0019 mg/L	0.00036	18.95%
Sodium, 7440-23-5†	Saturated2					
Strontium, 7440-24-6†	1476672.7	3.0988 mg/L	0.05328	6.1977 mg/L	0.10655	1.72%
Thallium, 7440-28-0†	31.0	0.0030 mg/L	0.00179	0.0061 mg/L	0.00357	58.76%
Tin, 7440-31-5†	-271.6	-0.0194 mg/L	0.00276	-0.0388 mg/L	0.00552	14.23%
Titanium, 7440-32-6†	67.1	0.0001 mg/L	0.00007	0.0002 mg/L	0.00014	60.10%
Vanadium, 7440-62-2†	-2739.0	-0.0024 mg/L	0.00203	-0.0047 mg/L	0.00406	86.15%
Zinc, 7440-66-6†	76.8	-0.0084 mg/L	0.00041	-0.0168 mg/L	0.00081	4.85%
Zirconium, 7440-67-7†	-5667.2	-0.0093 mg/L	0.00039	-0.0187 mg/L	0.00078	4.16%

Sequence No.: 16

Sample ID: 20610122402

Analyst:

Logged In Analyst (Original) : met

Initial Sample Wt:

Dilution: 2X

Autosampler Location: 20

Date Collected: 10/13/2006 11:41:12 AM

Data Type: Reprocessed on 10/16/2006 9:32:49 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 20610122402

Analyte	Mean Corrected		Conc.	Units	Sample				
	Intensity	Calib			Std.Dev.	Conc.	Units	Std.Dev.	RSD
Ar 363.268 A	57703.5	82.567 %	0.4453					0.0899	1.79%
Ar 420.067 R	1010645.7	83.038 %	0.1281					0.00642	0.15%
Scandium-IS	3215110.8	112.67 %	1.041						0.92%
Yttrium, 7440-65-5A	1645603.3	108.50 %	1.011						0.93%
Yttrium, 7440-65-5R	99388.5	123.73 %	1.385						1.12%
Aluminum, 7429-90-5†	2079.0	2.515 mg/L	0.0449	5.030 mg/L	0.00067	0.4909 mg/L	0.01614	0.25%	
Antimony, 7440-36-0†	1891.1	0.2918 mg/L	0.00321	0.5835 mg/L	0.00069	0.4591 mg/L	0.00139	0.30%	
Arsenic, 7440-38-2†	1140.3	0.3231 mg/L	0.00133	0.6462 mg/L	0.00257	0.5138 mg/L	0.00515	1.00%	
Barium, 7440-39-3†	63844.8	0.3310 mg/L	0.00043	0.6619 mg/L	0.00090	0.4907 mg/L	0.00179	0.37%	
Beryllium, 7440-41-7†	1063040.3	0.2453 mg/L	0.00090	0.4907 mg/L	0.00807	0.4828 mg/L	0.00065	0.10%	
Boron, 7440-42-8†	197739.2	3.2414 mg/L	0.0007	6.4828 mg/L	0.28	391.8 mg/L	0.00134	0.27%	
Cadmium, 7440-43-9†	61899.7	0.2454 mg/L	0.00067	0.4909 mg/L	0.28	0.56	0.148		
Calcium, 7440-70-2†	371741.0	195.9 mg/L	0.00069	0.4591 mg/L	0.28	3.322	0.00139	0.30%	
Chromium, 7440-47-3†	44828.2	0.2295 mg/L	0.00257	0.5138 mg/L	0.00090	0.6294 mg/L	0.00515	1.00%	
Cobalt, 7440-48-4†	14649.8	0.2569 mg/L	0.00032	0.6294 mg/L	0.00032	0.48604 mg/L	0.00065	0.10%	
Copper, 7440-50-8†	126463.9	0.3147 mg/L	0.00032	0.6294 mg/L	0.02958	4.8604 mg/L	0.05917	1.22%	
Iron, 7439-89-6†	3656.7	2.4302 mg/L	0.00355	0.4982 mg/L	0.000709	0.48604 mg/L	0.00709	1.42%	
Lithium, 7439-93-2†	38296.7	0.6143 mg/L	0.00317	1.2287 mg/L	0.00317	0.4982 mg/L	0.00634	0.52%	
Magnesium, 7439-95-4†	166773.3	531.14 mg/L	1.433	1062.3 mg/L	0.00067	0.578 mg/L	2.87	0.27%	
Manganese, 7439-96-5†	236825.3	0.289 mg/L	0.0006	0.578 mg/L	0.00013	0.5250 mg/L	0.00420	0.22%	
Molybdenum, 7439-98-7†	8517.7	0.2625 mg/L	0.00210	0.4857 mg/L	0.00056	0.5405 mg/L	0.00506	0.80%	
Nickel, 7440-02-0†	13996.0	0.2429 mg/L	0.00253	0.4857 mg/L	0.00074	0.4982 mg/L	0.00812	1.04%	
Potassium, 7440-09-7†	473287.2	208.11 mg/L	3.322	416.23 mg/L	0.00074	0.6127 mg/L	6.643	1.60%	
Selenium, 7782-49-2†	543.9	0.3064 mg/L	0.00406	0.6127 mg/L	0.00074	0.5288 mg/L	0.00812	1.32%	
Silicon, 7440-21-3†	1403.4	1.2764 mg/L	0.01786	2.5528 mg/L	0.01786	0.643	0.03573	1.40%	
Silver, 7440-22-4†	93916.0	0.2958 mg/L	0.00070	0.5916 mg/L	0.00070	0.5405 mg/L	0.00140	0.24%	
Sodium, 7440-23-5†	Saturated2								
Strontium, 7440-24-6†	1723557.5	3.6172 mg/L	0.06060	7.2343 mg/L	0.00015	0.12119	1.68%		
Thallium, 7440-28-0†	1716.1	0.2578 mg/L	0.00301	0.5156 mg/L	0.00015	0.00602	1.17%		
Tin, 7440-31-5†	2162.9	0.2290 mg/L	0.00169	0.4581 mg/L	0.00015	0.00339	0.748		
Titanium, 7440-32-6†	147827.6	0.2551 mg/L	0.00071	0.5103 mg/L	0.00071	0.00142	0.288		
Vanadium, 7440-62-2†	30538.3	0.2703 mg/L	0.00074	0.5405 mg/L	0.00074	0.00148	0.27%		
Zinc, 7440-66-6†	53787.5	0.2644 mg/L	0.00142	0.5288 mg/L	0.00142	0.00285	0.54%		
Zirconium, 7440-67-7†	-5022.7	-0.0081 mg/L	0.00015	-0.0162 mg/L	0.00015	0.00029	1.79%		

Sequence No.: 17

Autosampler Location: 21

000063

Sample ID: 20610122403

Date Collected: 10/13/2006 11:48:01 AM

Analyst:

Data Type: Reprocessed on 10/16/2006 9:32:51 AM

Logged In Analyst (Original) : met

Initial Sample Vol:

Initial Sample Wt:

Dilution: 2X

Sample Prep Vol:

Mean Data: 20610122403

Analyte	Mean Corrected Intensity	Calib	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Ar 363.268 A	58026.5	83.029 %	0.0510				0.06%
Ar 420.067 R	1013277.3	83.254 %	0.2737				0.33%
Scandium-IS	3210423.5	112.51 %	0.265				0.24%
Yttrium,7440-65-5A	1642301.0	108.28 %	0.267				0.25%
Yttrium,7440-65-5R	99354.2	123.68 %	1.578				1.28%
Aluminum,7429-90-5†	2051.8	2.482 mg/L	0.0540	4.965 mg/L	0.1079	2.17%	
Antimony,7440-36-0†	1842.7	0.2842 mg/L	0.00240	0.5685 mg/L	0.00480	0.84%	
Arsenic,7440-38-2†	1124.6	0.3186 mg/L	0.00187	0.6372 mg/L	0.00373	0.59%	
Barium,7440-39-3†	63107.2	0.3272 mg/L	0.00031	0.6543 mg/L	0.00063	0.10%	
Beryllium,7440-41-7†	1051949.0	0.2428 mg/L	0.00029	0.4856 mg/L	0.00058	0.12%	
Boron,7440-42-8†	194669.3	3.1911 mg/L	0.00275	6.3823 mg/L	0.00550	0.09%	
Cadmium,7440-43-9†	61385.2	0.2434 mg/L	0.00014	0.4868 mg/L	0.00029	0.06%	
Calcium,7440-70-2†	363079.8	191.3 mg/L	1.09	382.6 mg/L	2.18	0.57%	
Chromium,7440-47-3†	44343.0	0.2274 mg/L	0.00071	0.4548 mg/L	0.00142	0.31%	
Cobalt,7440-48-4†	14388.9	0.2523 mg/L	0.00163	0.5046 mg/L	0.00326	0.65%	
Copper,7440-50-8†	124487.4	0.3098 mg/L	0.00058	0.6196 mg/L	0.00116	0.19%	
Iron,7439-89-6†	3634.4	2.4154 mg/L	0.04889	4.8308 mg/L	0.09777	2.02%	
Lead,7439-92-1†	2834.3	0.2456 mg/L	0.00227	0.4912 mg/L	0.00454	0.92%	
Lithium,7439-93-2†	37196.5	0.5967 mg/L	0.00303	1.1934 mg/L	0.00606	0.51%	
Magnesium,7439-95-4†	162893.3	518.79 mg/L	3.362	1037.6 mg/L	6.72	0.65%	
Manganese,7439-96-5†	234528.8	0.286 mg/L	0.0005	0.573 mg/L	0.0011	0.19%	
Molybdenum,7439-98-7†	8311.6	0.2561 mg/L	0.00143	0.5123 mg/L	0.00286	0.56%	
Nickel,7440-02-0†	13754.8	0.2387 mg/L	0.00215	0.4773 mg/L	0.00430	0.90%	
Potassium,7440-09-7†	463101.5	203.63 mg/L	5.901	407.27 mg/L	11.801	2.90%	
Selenium,7782-49-2†	536.2	0.3021 mg/L	0.00189	0.6042 mg/L	0.00378	0.63%	
Silicon,7440-21-3†	1380.1	1.2569 mg/L	0.03136	2.5139 mg/L	0.06272	2.50%	
Silver,7440-22-4†	92352.7	0.2909 mg/L	0.00033	0.5818 mg/L	0.00065	0.11%	
Sodium,7440-23-5†	Saturated2						
Strontium,7440-24-6†	1688485.9	3.5436 mg/L	0.08554	7.0871 mg/L	0.17107	2.41%	
Thallium,7440-28-0†	1689.4	0.2538 mg/L	0.00193	0.5077 mg/L	0.00386	0.76%	
Tin,7440-31-5†	2110.0	0.2235 mg/L	0.00116	0.4469 mg/L	0.00231	0.52%	
Titanium,7440-32-6†	145513.4	0.2511 mg/L	0.00014	0.5023 mg/L	0.00029	0.06%	
Vanadium,7440-62-2†	30174.5	0.2668 mg/L	0.00061	0.5336 mg/L	0.00123	0.23%	
Zinc,7440-66-6†	53082.4	0.2610 mg/L	0.00033	0.5220 mg/L	0.00067	0.13%	
Zirconium,7440-67-7†	-5271.6	-0.0087 mg/L	0.00004	-0.0174 mg/L	0.00007	0.41%	

Sequence No.: 18

Autosampler Location: 22

Sample ID: 417887

Date Collected: 10/13/2006 11:54:50 AM

Analyst:

Data Type: Reprocessed on 10/16/2006 9:32:52 AM

Logged In Analyst (Original) : met

Initial Sample Vol:

Initial Sample Wt:

Sample Prep Vol:

Mean Data: 417887

Analyte	Mean Corrected Intensity	Calib	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Ar 363.268 A	57687.1	82.543 %	0.6422				0.78%
Ar 420.067 R	1021700.1	83.946 %	0.2557				0.30%
Scandium-IS	3150791.9	110.42 %	8.416				7.62%
Yttrium,7440-65-5A	1618146.3	106.69 %	7.575				7.10%
Yttrium,7440-65-5R	100266.1	124.82 %	0.500				0.40%
Aluminum,7429-90-5†	3760.0	4.545 mg/L	0.0245	9.089 mg/L	0.0491	0.54%	
Antimony,7440-36-0†	3560.2	0.5503 mg/L	0.03898	1.1007 mg/L	0.07797	7.08%	
Arsenic,7440-38-2†	2106.3	0.5921 mg/L	0.03941	1.1843 mg/L	0.07883	6.66%	
Barium,7440-39-3†	110239.8	0.5733 mg/L	0.04632	1.1466 mg/L	0.09263	8.08%	
Beryllium,7440-41-7†	2039870.5	0.4708 mg/L	0.03827	0.9416 mg/L	0.07653	8.13%	
Boron,7440-42-8†	276952.5	4.5418 mg/L	0.35398	9.0837 mg/L	0.70796	7.79%	
Cadmium,7440-43-9†	119139.0	0.4724 mg/L	0.03738	0.9448 mg/L	0.07476	7.91%	
Calcium,7440-70-2†	347857.6	183.3 mg/L	0.86	366.6 mg/L	1.71	0.47%	

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Chromium, 7440-47-3†	84416.5	0.4606 mg/L	0.04071	0.9212 mg/L	0.08142	8.84%
Cobalt, 7440-48-4†	27631.5	0.4838 mg/L	0.03338	0.9675 mg/L	0.06676	6.90%
Copper, 7440-50-8†	239422.6	0.6042 mg/L	0.04967	1.2084 mg/L	0.09934	8.22%
Iron, 7439-89-6†	6646.2	4.4168 mg/L	0.01944	8.8335 mg/L	0.03888	0.44%
Lead, 7439-92-1†	5457.6	0.4749 mg/L	0.03176	0.9498 mg/L	0.06352	6.69%
Lithium, 7439-93-2†	60747.8	0.9732 mg/L	0.00401	1.9463 mg/L	0.00802	0.41%
Magnesium, 7439-95-4†	155297.6	494.60 mg/L	1.113	989.19 mg/L	2.226	0.23%
Manganese, 7439-96-5†	433417.9	0.530 mg/L	0.0425	1.060 mg/L	0.0851	8.02%
Molybdenum, 7439-98-7†	15973.2	0.4928 mg/L	0.03540	0.9855 mg/L	0.07081	7.18%
Nickel, 7440-02-0†	26406.8	0.4582 mg/L	0.03206	0.9164 mg/L	0.06413	7.00%
Potassium, 7440-09-7†	445639.6	195.96 mg/L	0.369	391.91 mg/L	0.739	0.19%
Selenium, 7782-49-2†	1013.7	0.5790 mg/L	0.03679	1.1579 mg/L	0.07358	6.35%
Silicon, 7440-21-3†	1496.0	1.3961 mg/L	0.00940	2.7922 mg/L	0.01881	0.67%
Silver, 7440-22-4†	179373.9	0.5665 mg/L	0.04337	1.1331 mg/L	0.08674	7.65%
Sodium, 7440-23-5†	Saturated2					
Strontium, 7440-24-6†	1685748.8	3.5380 mg/L	0.03745	7.0759 mg/L	0.07491	1.06%
Thallium, 7440-28-0†	3231.3	0.4872 mg/L	0.03219	0.9743 mg/L	0.06438	6.61%
Tin, 7440-31-5†	4330.6	0.4490 mg/L	0.03079	0.8981 mg/L	0.06159	6.86%
Titanium, 7440-32-6†	283531.0	0.4894 mg/L	0.03968	0.9787 mg/L	0.07937	8.11%
Vanadium, 7440-62-2†	61444.0	0.5206 mg/L	0.04357	1.0413 mg/L	0.08713	8.37%
Zinc, 7440-66-6†	103288.1	0.5171 mg/L	0.04202	1.0342 mg/L	0.08403	8.13%
Zirconium, 7440-67-7†	-5230.9	-0.0090 mg/L	0.00069	-0.0180 mg/L	0.00138	7.65%

Sequence No.: 19

Sample ID: 417888

Analyst:

Logged In Analyst (Original) : met

Initial Sample Wt:

Dilution: 10X

Autosampler Location: 23

Date Collected: 10/13/2006 12:01:39 PM

Data Type: Reprocessed on 10/16/2006 9:32:54 AM

Initial Sample Vol:

Sample Prep Vol:

## Mean Data: 417888

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	66334.6	94.917 %	0.5393			0.57%
Ar 420.067 R	1139954.8	93.662 %	0.6011			0.64%
Scandium-IS	3770085.0	132.12 %	4.397			3.33%
Yttrium, 7440-65-5A	1953147.4	128.77 %	3.959			3.07%
Yttrium, 7440-65-5R	113192.9	140.91 %	1.149			0.82%
Aluminum, 7429-90-5†	-33.0	-0.039 mg/L	0.0035	-0.390 mg/L	0.0352	9.04%
Antimony, 7440-36-0†	-22.2	-0.0037 mg/L	0.00022	-0.0373 mg/L	0.00217	5.83%
Arsenic, 7440-38-2†	19.6	0.0060 mg/L	0.00045	0.0603 mg/L	0.00451	7.47%
Barium, 7440-39-3†	2505.2	0.0126 mg/L	0.00039	0.1263 mg/L	0.00390	3.09%
Beryllium, 7440-41-7†	-344.9	-0.0001 mg/L	0.00000	-0.0008 mg/L	0.00003	3.62%
Boron, 7440-42-8†	22788.9	0.3731 mg/L	0.01046	3.7314 mg/L	0.10457	2.80%
Cadmium, 7440-43-9†	-222.6	-0.0009 mg/L	0.00008	-0.0089 mg/L	0.00079	8.87%
Calcium, 7440-70-2†	74035.6	39.01 mg/L	0.047	390.1 mg/L	0.47	0.12%
Chromium, 7440-47-3†	463.7	-0.0032 mg/L	0.00032	-0.0324 mg/L	0.00319	9.83%
Cobalt, 7440-48-4†	40.0	0.0009 mg/L	0.00009	0.0086 mg/L	0.00092	10.71%
Copper, 7440-50-8†	721.4	0.0001 mg/L	0.00082	0.0013 mg/L	0.00822	621.61%
Iron, 7439-89-6†	-43.3	-0.0288 mg/L	0.00277	-0.2875 mg/L	0.02766	9.62%
Lead, 7439-92-1†	-4.2	-0.0008 mg/L	0.00093	-0.0078 mg/L	0.00925	118.98%
Lithium, 7439-93-2†	888.1	0.0146 mg/L	0.00033	0.1460 mg/L	0.00328	2.24%
Magnesium, 7439-95-4†	32519.1	103.57 mg/L	0.149	1035.7 mg/L	1.49	0.14%
Manganese, 7439-96-5†	4583.5	0.005 mg/L	0.0002	0.054 mg/L	0.0018	3.38%
Molybdenum, 7439-98-7†	57.3	0.0017 mg/L	0.00018	0.0166 mg/L	0.00182	10.94%
Nickel, 7440-02-0†	6.8	0.0001 mg/L	0.00022	0.0012 mg/L	0.00218	180.04%
Potassium, 7440-09-7†	64855.9	28.518 mg/L	0.2709	285.18 mg/L	2.709	0.95%
Selenium, 7782-49-2†	11.2	0.0048 mg/L	0.00459	0.0477 mg/L	0.04586	96.09%
Silicon, 7440-21-3†	191.8	0.1591 mg/L	0.00221	1.5912 mg/L	0.02209	1.39%
Silver, 7440-22-4†	287.5	0.0003 mg/L	0.00008	0.0033 mg/L	0.00082	24.78%
Sodium, 7440-23-5†	4148606.4	727.51 mg/L	5.512	7275.1 mg/L	55.12	0.76%
Strontium, 7440-24-6†	296966.3	0.6231 mg/L	0.00440	6.2313 mg/L	0.04399	0.71%
Thallium, 7440-28-0†	43.3	0.0062 mg/L	0.00144	0.0617 mg/L	0.01443	23.39%
Tin, 7440-31-5†	-135.7	-0.0120 mg/L	0.00045	-0.1204 mg/L	0.00448	3.73%
Titanium, 7440-32-6†	245.8	0.0004 mg/L	0.00008	0.0043 mg/L	0.00076	17.90%
Vanadium, 7440-62-2†	-2634.3	-0.0173 mg/L	0.00170	-0.1730 mg/L	0.01701	9.83%
Zinc, 7440-66-6†	-287.9	-0.0033 mg/L	0.00020	-0.0332 mg/L	0.00197	5.94%
Zirconium, 7440-67-7†	-3186.4	-0.0060 mg/L	0.00010	-0.0603 mg/L	0.00100	1.67%

000065

Sequence No.: 20

Autosampler Location: 24

Sample ID: ---

Date Collected: 10/13/2006 12:08:41 PM

Analyst:

Data Type: Reprocessed on 10/16/2006 9:32:56 AM

Logged In Analyst (Original) : met

Initial Sample Vol:

Initial Sample Wt:

Dilution: 1X

Sample Prep Vol:

Mean Data: ---

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	70290.4	100.58 %	0.192			0.19%
Ar 420.067 R	1177984.6	96.787 %	0.2206			0.23%
Scandium-IS	4056596.9	142.16 %	0.864			0.61%
Yttrium, 7440-65-5A	2150591.3	141.79 %	1.085			0.77%
Yttrium, 7440-65-5R	122812.2	152.88 %	7.046			4.61%
Aluminum, 7429-90-5†	-38.6	-0.047 mg/L	0.0101	-0.047 mg/L	0.0101	21.66%
Antimony, 7440-36-0†	-28.4	-0.0044 mg/L	0.00075	-0.0044 mg/L	0.00075	16.91%
Arsenic, 7440-38-2†	33.9	0.0091 mg/L	0.00092	0.0091 mg/L	0.00092	10.15%
Barium, 7440-39-3†	-2.3	0.0000 mg/L	0.00004	0.0000 mg/L	0.00004	578.97%
Beryllium, 7440-41-7†	-285.6	-0.0001 mg/L	0.00000	-0.0001 mg/L	0.00000	6.23%
Boron, 7440-42-8†	2228.0	0.0365 mg/L	0.00084	0.0365 mg/L	0.00084	2.30%
Cadmium, 7440-43-9†	-156.5	-0.0006 mg/L	0.00002	-0.0006 mg/L	0.00002	3.77%
Calcium, 7440-70-2†	-48.7	-0.026 mg/L	0.0045	-0.026 mg/L	0.0045	17.65%
Chromium, 7440-47-3†	-334.9	-0.0019 mg/L	0.00005	-0.0019 mg/L	0.00005	2.55%
Cobalt, 7440-48-4†	84.7	0.0015 mg/L	0.00010	0.0015 mg/L	0.00010	6.61%
Copper, 7440-50-8†	-1313.9	-0.0034 mg/L	0.00018	-0.0034 mg/L	0.00018	5.38%
Iron, 7439-89-6†	-35.9	-0.0239 mg/L	0.00260	-0.0239 mg/L	0.00260	10.87%
Lead, 7439-92-1†	-3.9	-0.0003 mg/L	0.00008	-0.0003 mg/L	0.00008	23.24%
Lithium, 7439-93-2†	-120.8	-0.0019 mg/L	0.00047	-0.0019 mg/L	0.00047	24.22%
Magnesium, 7439-95-4†	9.0	0.0286 mg/L	0.00974	0.0286 mg/L	0.00974	34.08%
Manganese, 7439-96-5†	-348.8	0.0000 mg/L	0.0000	0.0000 mg/L	0.0000	2.22%
Molybdenum, 7439-98-7†	25.4	0.0008 mg/L	0.00017	0.0008 mg/L	0.00017	21.13%
Nickel, 7440-02-0†	0.8	0.0000 mg/L	0.00020	0.0000 mg/L	0.00020	>999.9%
Potassium, 7440-09-7†	443.7	0.1951 mg/L	0.00392	0.1951 mg/L	0.00392	2.01%
Selenium, 7782-49-2†	16.4	0.0094 mg/L	0.00314	0.0094 mg/L	0.00314	33.31%
Silicon, 7440-21-3†	-37.3	-0.0409 mg/L	0.00254	-0.0409 mg/L	0.00254	6.21%
Silver, 7440-22-4†	171.5	0.0005 mg/L	0.00014	0.0005 mg/L	0.00014	28.83%
Sodium, 7440-23-5†	7684.9	1.3477 mg/L	0.07298	1.3477 mg/L	0.07298	5.42%
Strontium, 7440-24-6†	-233.6	-0.0005 mg/L	0.00008	-0.0005 mg/L	0.00008	15.60%
Thallium, 7440-28-0†	29.3	0.0044 mg/L	0.00099	0.0044 mg/L	0.00099	22.36%
Tin, 7440-31-5†	-24.9	-0.0025 mg/L	0.00075	-0.0025 mg/L	0.00075	29.75%
Titanium, 7440-32-6†	354.8	0.0006 mg/L	0.00006	0.0006 mg/L	0.00006	10.43%
Vanadium, 7440-62-2†	-505.5	-0.0041 mg/L	0.00041	-0.0041 mg/L	0.00041	9.90%
Zinc, 7440-66-6†	-229.6	-0.0012 mg/L	0.00053	-0.0012 mg/L	0.00053	45.55%
Zirconium, 7440-67-7†	-556.6	-0.0011 mg/L	0.00007	-0.0011 mg/L	0.00007	6.16%

Sequence No.: 21

Autosampler Location: 25

Sample ID: ---

Date Collected: 10/13/2006 12:15:32 PM

Analyst:

Data Type: Reprocessed on 10/16/2006 9:32:57 AM

Logged In Analyst (Original) : met

Initial Sample Vol:

Initial Sample Wt:

Dilution: 1X

Sample Prep Vol:

Mean Data: ---

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	70159.7	100.39 %	0.579			0.58%
Ar 420.067 R	1174889.3	96.532 %	0.0931			0.10%
Scandium-IS	4102459.1	143.77 %	3.041			2.12%
Yttrium, 7440-65-5A	2177560.0	143.57 %	2.885			2.01%
Yttrium, 7440-65-5R	121237.8	150.92 %	1.192			0.79%
Aluminum, 7429-90-5†	-38.2	-0.046 mg/L	0.0033	-0.046 mg/L	0.0033	7.14%
Antimony, 7440-36-0†	-24.7	-0.0038 mg/L	0.00077	-0.0038 mg/L	0.00077	20.01%
Arsenic, 7440-38-2†	38.6	0.0104 mg/L	0.00254	0.0104 mg/L	0.00254	24.52%
Barium, 7440-39-3†	-23.6	-0.0001 mg/L	0.00003	-0.0001 mg/L	0.00003	24.07%
Beryllium, 7440-41-7†	-262.6	-0.0001 mg/L	0.00001	-0.0001 mg/L	0.00001	22.10%
Boron, 7440-42-8†	1745.2	0.0286 mg/L	0.00101	0.0286 mg/L	0.00101	3.52%

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Cadmium, 7440-43-9†	-172.0	-0.0007 mg/L	0.00006	-0.0007 mg/L	0.00006	8.53%
Calcium, 7440-70-2†	-48.3	-0.025 mg/L	0.0028	-0.025 mg/L	0.0028	10.80%
Chromium, 7440-47-3†	-364.2	-0.0021 mg/L	0.00015	-0.0021 mg/L	0.00015	7.12%
Cobalt, 7440-48-4†	85.9	0.0015 mg/L	0.00017	0.0015 mg/L	0.00017	11.22%
Copper, 7440-50-8†	-1523.5	-0.0039 mg/L	0.00041	-0.0039 mg/L	0.00041	10.55%
Iron, 7439-89-6†	-38.3	-0.0255 mg/L	0.00153	-0.0255 mg/L	0.00153	6.01%
Lead, 7439-92-1†	-1.0	-0.0001 mg/L	0.00080	-0.0001 mg/L	0.00080	928.20%
Lithium, 7439-93-2†	-133.3	-0.0021 mg/L	0.00031	-0.0021 mg/L	0.00031	14.35%
Magnesium, 7439-95-4†	7.1	0.0227 mg/L	0.02158	0.0227 mg/L	0.02158	95.26%
Manganese, 7439-96-5†	-356.3	0.0000 mg/L	0.0000	0.0000 mg/L	0.0000	5.08%
Molybdenum, 7439-98-7†	14.0	0.0004 mg/L	0.00009	0.0004 mg/L	0.00009	20.26%
Nickel, 7440-02-0†	6.6	0.0001 mg/L	0.00026	0.0001 mg/L	0.00026	229.23%
Potassium, 7440-09-7†	366.1	0.1610 mg/L	0.00391	0.1610 mg/L	0.00391	2.43%
Selenium, 7782-49-2†	16.9	0.0097 mg/L	0.00033	0.0097 mg/L	0.00033	3.43%
Silicon, 7440-21-3†	-35.2	-0.0387 mg/L	0.00146	-0.0387 mg/L	0.00146	3.78%
Silver, 7440-22-4†	231.5	0.0007 mg/L	0.00010	0.0007 mg/L	0.00010	15.87%
Sodium, 7440-23-5†	5268.4	0.9239 mg/L	0.01840	0.9239 mg/L	0.01840	1.99%
Strontium, 7440-24-6†	-241.6	-0.0005 mg/L	0.00001	-0.0005 mg/L	0.00001	1.26%
Thallium, 7440-28-0†	30.5	0.0046 mg/L	0.00177	0.0046 mg/L	0.00177	38.68%
Tin, 7440-31-5†	-32.0	-0.0033 mg/L	0.00030	-0.0033 mg/L	0.00030	9.29%
Titanium, 7440-32-6†	301.1	0.0005 mg/L	0.00008	0.0005 mg/L	0.00008	15.68%
Vanadium, 7440-62-2†	-572.9	-0.0047 mg/L	0.00054	-0.0047 mg/L	0.00054	11.58%
Zinc, 7440-66-6†	-305.8	-0.0016 mg/L	0.00027	-0.0016 mg/L	0.00027	17.53%
Zirconium, 7440-67-7†	-541.3	-0.0011 mg/L	0.00010	-0.0011 mg/L	0.00010	9.05%

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Sequence No.: 22

Sample ID: 1800

Autosampler Location: 7

Date Collected: 10/13/2006 12:23:56 PM

Analyst:

Data Type: Reprocessed on 10/16/2006 9:32:59 AM

Logged In Analyst (Original) : met

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

## Mean Data: 1800

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	70309.1	100.60 %	0.486			0.48%
Ar 420.067 R	1174174.8	96.474 %	0.4749			0.49%
Scandium-IS	4151760.3	145.49 %	1.236			0.85%
Yttrium, 7440-65-5A	2182432.1	143.89 %	1.210			0.84%
Yttrium, 7440-65-5R	123026.1	153.15 %	0.762			0.50%
Aluminum, 7429-90-5†	3917.2	4.730 mg/L	0.0163	4.730 mg/L	0.0163	0.34%
QC value within limits for Aluminum, 7429-90-5			Recovery = 94.59%			
Antimony, 7440-36-0†	3228.1	0.4991 mg/L	0.00467	0.4991 mg/L	0.00467	0.94%
QC value within limits for Antimony, 7440-36-0			Recovery = 99.82%			
Arsenic, 7440-38-2†	1952.4	0.5449 mg/L	0.00267	0.5449 mg/L	0.00267	0.49%
QC value within limits for Arsenic, 7440-38-2			Recovery = 108.97%			
Barium, 7440-39-3†	99098.9	0.5173 mg/L	0.00558	0.5173 mg/L	0.00558	1.08%
QC value within limits for Barium, 7440-39-3			Recovery = 103.46%			
Beryllium, 7440-41-7†	2196502.6	0.5070 mg/L	0.00092	0.5070 mg/L	0.00092	0.18%
QC value within limits for Beryllium, 7440-41-7			Recovery = 101.40%			
Boron, 7440-42-8†	157902.8	2.5925 mg/L	0.02321	2.5925 mg/L	0.02321	0.90%
QC value within limits for Boron, 7440-42-8			Recovery = 103.70%			
Cadmium, 7440-43-9†	130623.1	0.5181 mg/L	0.00545	0.5181 mg/L	0.00545	1.05%
QC value within limits for Cadmium, 7440-43-9			Recovery = 103.61%			
Calcium, 7440-70-2†	10007.1	5.272 mg/L	0.0079	5.272 mg/L	0.0079	0.15%
QC value within limits for Calcium, 7440-70-2			Recovery = 105.44%			
Chromium, 7440-47-3†	88264.3	0.5104 mg/L	0.00561	0.5104 mg/L	0.00561	1.10%
QC value within limits for Chromium, 7440-47-3			Recovery = 102.07%			
Cobalt, 7440-48-4†	29504.9	0.5160 mg/L	0.00507	0.5160 mg/L	0.00507	0.98%
QC value within limits for Cobalt, 7440-48-4			Recovery = 103.21%			
Copper, 7440-50-8†	196509.3	0.5022 mg/L	0.00470	0.5022 mg/L	0.00470	0.94%
QC value within limits for Copper, 7440-50-8			Recovery = 100.44%			
Iron, 7439-89-6†	7763.1	5.1590 mg/L	0.02729	5.1590 mg/L	0.02729	0.53%
QC value within limits for Iron, 7439-89-6			Recovery = 103.18%			
Lead, 7439-92-1†	5883.0	0.5143 mg/L	0.00409	0.5143 mg/L	0.00409	0.80%
QC value within limits for Lead, 7439-92-1			Recovery = 102.87%			
Lithium, 7439-93-2†	29687.5	0.4747 mg/L	0.00032	0.4747 mg/L	0.00032	0.07%
QC value within limits for Lithium, 7439-93-2			Recovery = 94.95%			
Magnesium, 7439-95-4†	1556.0	4.9573 mg/L	0.01908	4.9573 mg/L	0.01908	0.38%

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QC value within limits for Magnesium, 7439-95-4 Recovery = 99.15%  
Manganese, 7439-96-5† 420467.4 0.515 mg/L 0.0055 0.515 mg/L 0.0055 1.06%  
QC value within limits for Manganese, 7439-96-5 Recovery = 103.02%  
Molybdenum, 7439-98-7† 16273.3 0.5026 mg/L 0.00366 0.5026 mg/L 0.00366 0.73%  
QC value within limits for Molybdenum, 7439-98-7 Recovery = 100.51%  
Nickel, 7440-02-0† 29567.4 0.5131 mg/L 0.00587 0.5131 mg/L 0.00587 1.14%  
QC value within limits for Nickel, 7440-02-0 Recovery = 102.62%  
Potassium, 7440-09-7† 21892.1 9.6250 mg/L 0.04947 9.6250 mg/L 0.04947 0.51%  
QC value within limits for Potassium, 7440-09-7 Recovery = 96.25%  
Selenium, 7782-49-2† 929.7 0.5390 mg/L 0.00197 0.5390 mg/L 0.00197 0.37%  
QC value within limits for Selenium, 7782-49-2 Recovery = 107.80%  
Silicon, 7440-21-3† 406.5 0.4436 mg/L 0.00156 0.4436 mg/L 0.00156 0.35%  
QC value less than the lower limit for Silicon, 7440-21-3 Recovery = 88.71%  
Silver, 7440-22-4† 159178.5 0.5051 mg/L 0.00505 0.5051 mg/L 0.00505 1.00%  
QC value within limits for Silver, 7440-22-4 Recovery = 101.02%  
Sodium, 7440-23-5† 109785.8 19.250 mg/L 0.0655 19.250 mg/L 0.0655 0.34%  
QC value within limits for Sodium, 7440-23-5 Recovery = 96.25%  
Strontium, 7440-24-6† 235098.1 0.4938 mg/L 0.00489 0.4938 mg/L 0.00489 0.99%  
QC value within limits for Strontium, 7440-24-6 Recovery = 98.76%  
Thallium, 7440-28-0† 3408.2 0.5155 mg/L 0.00301 0.5155 mg/L 0.00301 0.58%  
QC value within limits for Thallium, 7440-28-0 Recovery = 103.09%  
Tin, 7440-31-5† 5058.9 0.5150 mg/L 0.00406 0.5150 mg/L 0.00406 0.79%  
QC value within limits for Tin, 7440-31-5 Recovery = 102.99%  
Titanium, 7440-32-6† 294045.2 0.5075 mg/L 0.00073 0.5075 mg/L 0.00073 0.14%  
QC value within limits for Titanium, 7440-32-6 Recovery = 101.50%  
Vanadium, 7440-62-2† 62078.4 0.5060 mg/L 0.00609 0.5060 mg/L 0.00609 1.20%  
QC value within limits for Vanadium, 7440-62-2 Recovery = 101.20%  
Zinc, 7440-66-6† 99146.6 0.5043 mg/L 0.00489 0.5043 mg/L 0.00489 0.97%  
QC value within limits for Zinc, 7440-66-6 Recovery = 100.86%  
Zirconium, 7440-67-7† 246279.3 0.5032 mg/L 0.00527 0.5032 mg/L 0.00527 1.05%  
QC value within limits for Zirconium, 7440-67-7 Recovery = 100.64%  
QC Failed. Continue with analysis.

Sequence No.: 23

Autosampler Location: 1

Sample ID: 1900

Date Collected: 10/13/2006 12:34:08 PM

Analyst:

Data Type: Reprocessed on 10/16/2006 9:33:01 AM

Logged In Analyst (Original) : met

Initial Sample Vol:

Initial Sample Wt:

Sample Prep Vol:

Dilution:  
Mean Data: 1900

Analyte	Mean Corrected		Calib		Sample		Std.Dev.	RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units		
Ar 363.268 A	70727.5	101.20	%	0.533			0.0100	21.30%
Ar 420.067 R	1182094.7	97.125	%	0.3668				0.38%
Scandium-IS	4122543.1	144.47	%	0.502				0.35%
Yttrium, 7440-65-5A	2188268.0	144.27	%	0.502				0.35%
Yttrium, 7440-65-5R	122866.1	152.95	%	3.584				2.34%
Aluminum, 7429-90-5†	-38.9	-0.047	mg/L	0.0100	-0.047	mg/L	0.0100	21.30%
QC value within limits for Aluminum, 7429-90-5				Recovery = Not calculated				
Antimony, 7440-36-0†	-23.4	-0.0036	mg/L	0.00075	-0.0036	mg/L	0.00075	20.70%
QC value within limits for Antimony, 7440-36-0				Recovery = Not calculated				
Arsenic, 7440-38-2†	33.6	0.0090	mg/L	0.00065	0.0090	mg/L	0.00065	7.23%
QC value within limits for Arsenic, 7440-38-2				Recovery = Not calculated				
Barium, 7440-39-3†	-23.0	-0.0001	mg/L	0.00013	-0.0001	mg/L	0.00013	109.10%
QC value within limits for Barium, 7440-39-3				Recovery = Not calculated				
Beryllium, 7440-41-7†	-227.7	-0.0001	mg/L	0.00002	-0.0001	mg/L	0.00002	41.23%
QC value within limits for Beryllium, 7440-41-7				Recovery = Not calculated				
Boron, 7440-42-8†	2106.7	0.0345	mg/L	0.00040	0.0345	mg/L	0.00040	1.15%
QC value within limits for Boron, 7440-42-8				Recovery = Not calculated				
Cadmium, 7440-43-9†	-161.3	-0.0006	mg/L	0.00004	-0.0006	mg/L	0.00004	5.95%
QC value within limits for Cadmium, 7440-43-9				Recovery = Not calculated				
Calcium, 7440-70-2†	-35.7	-0.019	mg/L	0.0018	-0.019	mg/L	0.0018	9.36%
QC value within limits for Calcium, 7440-70-2				Recovery = Not calculated				
Chromium, 7440-47-3†	-313.7	-0.0018	mg/L	0.00003	-0.0018	mg/L	0.00003	1.73%
QC value within limits for Chromium, 7440-47-3				Recovery = Not calculated				
Cobalt, 7440-48-4†	98.7	0.0017	mg/L	0.00015	0.0017	mg/L	0.00015	8.78%
QC value within limits for Cobalt, 7440-48-4				Recovery = Not calculated				
Copper, 7440-50-8†	-1482.7	-0.0038	mg/L	0.00028	-0.0038	mg/L	0.00028	7.49%

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QC value within limits for Copper, 7440-50-8 Recovery = Not calculated  
 Iron, 7439-89-6† -33.3 -0.0221 mg/L 0.00174 -0.0221 mg/L 0.00174 7.87%  
 QC value within limits for Iron, 7439-89-6 Recovery = Not calculated  
 Lead, 7439-92-1† 10.2 0.0009 mg/L 0.00120 0.0009 mg/L 0.00120 134.52%  
 QC value within limits for Lead, 7439-92-1 Recovery = Not calculated  
 Lithium, 7439-93-2† -115.6 -0.0018 mg/L 0.00034 -0.0018 mg/L 0.00034 18.42%  
 QC value within limits for Lithium, 7439-93-2 Recovery = Not calculated  
 Magnesium, 7439-95-4† 2.2 0.0070 mg/L 0.00549 0.0070 mg/L 0.00549 78.58%  
 QC value within limits for Magnesium, 7439-95-4 Recovery = Not calculated  
 Manganese, 7439-96-5† -322.1 0.0000 mg/L 0.0000 0.0000 mg/L 0.0000 3.51%  
 QC value within limits for Manganese, 7439-96-5 Recovery = Not calculated  
 Molybdenum, 7439-98-7† 29.2 0.0009 mg/L 0.00017 0.0009 mg/L 0.00017 18.45%  
 QC value within limits for Molybdenum, 7439-98-7 Recovery = Not calculated  
 Nickel, 7440-02-0† 1.0 0.0000 mg/L 0.00017 0.0000 mg/L 0.00017 902.59%  
 QC value within limits for Nickel, 7440-02-0 Recovery = Not calculated  
 Potassium, 7440-09-7† 266.7 0.1173 mg/L 0.01389 0.1173 mg/L 0.01389 11.85%  
 QC value within limits for Potassium, 7440-09-7 Recovery = Not calculated  
 Selenium, 7782-49-2† 20.6 0.0119 mg/L 0.00165 0.0119 mg/L 0.00165 13.87%  
 QC value within limits for Selenium, 7782-49-2 Recovery = Not calculated  
 Silicon, 7440-21-3† -31.7 -0.0347 mg/L 0.00386 -0.0347 mg/L 0.00386 11.11%  
 QC value within limits for Silicon, 7440-21-3 Recovery = Not calculated  
 Silver, 7440-22-4† 170.6 0.0005 mg/L 0.00010 0.0005 mg/L 0.00010 21.19%  
 QC value within limits for Silver, 7440-22-4 Recovery = Not calculated  
 Sodium, 7440-23-5† 2501.4 0.4387 mg/L 0.04278 0.4387 mg/L 0.04278 9.75%  
 QC value within limits for Sodium, 7440-23-5 Recovery = Not calculated  
 Strontium, 7440-24-6† -274.7 -0.0006 mg/L 0.00004 -0.0006 mg/L 0.00004 7.71%  
 QC value within limits for Strontium, 7440-24-6 Recovery = Not calculated  
 Thallium, 7440-28-0† 25.2 0.0038 mg/L 0.00098 0.0038 mg/L 0.00098 25.82%  
 QC value within limits for Thallium, 7440-28-0 Recovery = Not calculated  
 Tin, 7440-31-5† -25.2 -0.0026 mg/L 0.00010 -0.0026 mg/L 0.00010 3.92%  
 QC value within limits for Tin, 7440-31-5 Recovery = Not calculated  
 Titanium, 7440-32-6† 320.9 0.0006 mg/L 0.00011 0.0006 mg/L 0.00011 19.19%  
 QC value within limits for Titanium, 7440-32-6 Recovery = Not calculated  
 Vanadium, 7440-62-2† -599.1 -0.0049 mg/L 0.00030 -0.0049 mg/L 0.00030 6.07%  
 QC value within limits for Vanadium, 7440-62-2 Recovery = Not calculated  
 Zinc, 7440-66-6† -236.4 -0.0012 mg/L 0.00013 -0.0012 mg/L 0.00013 11.05%  
 QC value within limits for Zinc, 7440-66-6 Recovery = Not calculated  
 Zirconium, 7440-67-7† -39.4 -0.0001 mg/L 0.00010 -0.0001 mg/L 0.00010 117.09%  
 QC value within limits for Zirconium, 7440-67-7 Recovery = Not calculated  
 All analyte(s) passed QC.

Sequence No.: 24  
 Sample ID: 20610122401 T  
 Analyst:  
 Logged In Analyst (Original) : met  
 Initial Sample Wt:  
 Dilution: 2X

Autosampler Location: 27  
 Date Collected: 10/13/2006 12:41:02 PM  
 Data Type: Reprocessed on 10/16/2006 9:33:03 AM  
 Initial Sample Vol:  
 Sample Prep Vol:

## Mean Data: 20610122401 T

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc. Units			Conc. Units	Std.Dev.		
Ar 363.268 A	57057.6	81.643 %	0.2114		0.802 mg/L	0.0199	2.48%	
Ar 420.067 R	997830.9	81.985 %	0.2378		-0.0078 mg/L	0.00158	20.30%	
Scandium-IS	3493299.2	122.42 %	4.867				3.98%	
Yttrium, 7440-65-5A	1788986.0	117.95 %	4.583				3.89%	
Yttrium, 7440-65-5R	107164.1	133.40 %	1.269				0.95%	
Aluminum, 7429-90-5†	328.7	0.401 mg/L	0.0099					
Antimony, 7440-36-0†	-17.7	-0.0039 mg/L	0.00079					
Arsenic, 7440-38-2†	55.3	0.0203 mg/L	0.00383					
Barium, 7440-39-3†	12245.1	0.0618 mg/L	0.00227					
Beryllium, 7440-41-7†	-689.7	-0.0002 mg/L	0.00001					
Boron, 7440-42-8†	98264.4	1.6091 mg/L	0.06686					
Cadmium, 7440-43-9†	-474.5	-0.0019 mg/L	0.00002					
Calcium, 7440-70-2†	334449.9	176.2 mg/L	2.52					
Chromium, 7440-47-3†	1608.4	-0.0175 mg/L	0.00022					
Cobalt, 7440-48-4†	21.5	0.0010 mg/L	0.00034					
Copper, 7440-50-8†	2276.4	-0.0021 mg/L	0.00108					
Iron, 7439-89-6†	390.5	0.2597 mg/L	0.00922					
Lead, 7439-92-1†	-14.1	-0.0031 mg/L	0.00061					

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Lithium, 7439-93-2†	6947.4	0.1129 mg/L	0.00200	0.2258 mg/L	0.00400	1.77%
Magnesium, 7439-95-4†	149868.7	477.30 mg/L	6.194	954.61 mg/L	12.388	1.30%
Manganese, 7439-96-5†	37193.0	0.045 mg/L	0.0022	0.089 mg/L	0.0044	4.93%
Molybdenum, 7439-98-7†	21.2	0.0002 mg/L	0.00036	0.0003 mg/L	0.00071	212.28%
Nickel, 7440-02-0†	20.3	0.0003 mg/L	0.00013	0.0007 mg/L	0.00025	38.19%
Potassium, 7440-09-7†	406488.0	178.74 mg/L	4.609	357.48 mg/L	9.218	2.58%
Selenium, 7782-49-2†	1.3	-0.0068 mg/L	0.00308	-0.0136 mg/L	0.00615	45.19%
Silicon, 7440-21-3†	1857.5	1.8016 mg/L	0.05890	3.6031 mg/L	0.11780	3.27%
Silver, 7440-22-4†	747.6	0.0009 mg/L	0.00009	0.0019 mg/L	0.00017	9.27%
Sodium, 7440-23-5†	Saturated2					
Strontium, 7440-24-6†	1452294.9	3.0477 mg/L	0.08206	6.0953 mg/L	0.16413	2.69%
Thallium, 7440-28-0†	33.2	0.0035 mg/L	0.00010	0.0070 mg/L	0.00021	2.92%
Tin, 7440-31-5†	-243.8	-0.0167 mg/L	0.00117	-0.0335 mg/L	0.00233	6.97%
Titanium, 7440-32-6†	5832.6	0.0101 mg/L	0.00065	0.0201 mg/L	0.00130	6.43%
Vanadium, 7440-62-2†	-2291.0	0.0006 mg/L	0.00062	0.0011 mg/L	0.00125	109.34%
Zinc, 7440-66-6†	253.8	-0.0072 mg/L	0.00026	-0.0144 mg/L	0.00051	3.56%
Zirconium, 7440-67-7†	-4460.8	-0.0069 mg/L	0.00013	-0.0138 mg/L	0.00027	1.92%

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Sequence No.: 25

Sample ID: 20610122402 T

Analyst:

Logged In Analyst (Original) : met

Initial Sample Wt:

Dilution: 2X

Autosampler Location: 28

Date Collected: 10/13/2006 12:47:46 PM

Data Type: Reprocessed on 10/16/2006 9:33:05 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 20610122402 T

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	57196.9	81.842 %	0.1451			0.18%
Ar 420.067 R	1007596.0	82.787 %	0.2284			0.28%
Scandium-IS	3415802.7	119.70 %	1.179			0.99%
Yttrium, 7440-65-5A	1748718.3	115.29 %	1.081			0.94%
Yttrium, 7440-65-5R	104908.4	130.60 %	0.555			0.42%
Aluminum, 7429-90-5†	2327.6	2.815 mg/L	0.0362	5.629 mg/L	0.0724	1.29%
Antimony, 7440-36-0†	1769.2	0.2730 mg/L	0.00429	0.5460 mg/L	0.00858	1.57%
Arsenic, 7440-38-2†	1095.2	0.3099 mg/L	0.00404	0.6198 mg/L	0.00807	1.30%
Barium, 7440-39-3†	60124.5	0.3118 mg/L	0.00032	0.6236 mg/L	0.00065	0.10%
Beryllium, 7440-41-7†	1004201.5	0.2318 mg/L	0.00021	0.4635 mg/L	0.00041	0.09%
Boron, 7440-42-8†	180748.8	2.9632 mg/L	0.01225	5.9264 mg/L	0.02450	0.41%
Cadmium, 7440-43-9†	58492.2	0.2319 mg/L	0.00016	0.4638 mg/L	0.00033	0.07%
Calcium, 7440-70-2†	328824.7	173.3 mg/L	0.43	346.5 mg/L	0.86	0.25%
Chromium, 7440-47-3†	42203.2	0.2178 mg/L	0.00033	0.4355 mg/L	0.00067	0.15%
Cobalt, 7440-48-4†	13852.6	0.2428 mg/L	0.00393	0.4857 mg/L	0.00787	1.62%
Copper, 7440-50-8†	119322.0	0.2974 mg/L	0.00066	0.5947 mg/L	0.00133	0.22%
Iron, 7439-89-6†	3883.3	2.5808 mg/L	0.04089	5.1616 mg/L	0.08178	1.58%
Lead, 7439-92-1†	2720.0	0.2359 mg/L	0.00416	0.4718 mg/L	0.00832	1.76%
Lithium, 7439-93-2†	34440.3	0.5525 mg/L	0.00049	1.1049 mg/L	0.00098	0.09%
Magnesium, 7439-95-4†	147862.6	470.92 mg/L	1.081	941.83 mg/L	2.162	0.23%
Manganese, 7439-96-5†	239256.4	0.292 mg/L	0.0004	0.585 mg/L	0.0008	0.13%
Molybdenum, 7439-98-7†	7967.9	0.2456 mg/L	0.00431	0.4912 mg/L	0.00861	1.75%
Nickel, 7440-02-0†	13220.8	0.2294 mg/L	0.00384	0.4588 mg/L	0.00767	1.67%
Potassium, 7440-09-7†	408843.0	179.78 mg/L	0.951	359.55 mg/L	1.903	0.53%
Selenium, 7782-49-2†	519.3	0.2932 mg/L	0.00153	0.5865 mg/L	0.00306	0.52%
Silicon, 7440-21-3†	2193.7	2.1735 mg/L	0.02051	4.3470 mg/L	0.04103	0.94%
Silver, 7440-22-4†	88141.6	0.2778 mg/L	0.00026	0.5556 mg/L	0.00052	0.09%
Sodium, 7440-23-5†	Saturated2					
Strontium, 7440-24-6†	1525591.2	3.2017 mg/L	0.00668	6.4034 mg/L	0.01336	0.21%
Thallium, 7440-28-0†	1638.2	0.2463 mg/L	0.00297	0.4926 mg/L	0.00594	1.21%
Tin, 7440-31-5†	2046.2	0.2161 mg/L	0.00303	0.4323 mg/L	0.00606	1.40%
Titanium, 7440-32-6†	145225.8	0.2507 mg/L	0.00215	0.5013 mg/L	0.00431	0.86%
Vanadium, 7440-62-2†	29023.3	0.2555 mg/L	0.00098	0.5109 mg/L	0.00195	0.38%
Zinc, 7440-66-6†	51138.7	0.2519 mg/L	0.00026	0.5039 mg/L	0.00052	0.10%
Zirconium, 7440-67-7†	-2791.7	-0.0038 mg/L	0.00093	-0.0077 mg/L	0.00185	24.12%

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Sequence No.: 26

Sample ID: 20610122403 T

Analyst:

Logged In Analyst (Original) : met

Autosampler Location: 29

Date Collected: 10/13/2006 12:53:39 PM

Data Type: Reprocessed on 10/16/2006 9:33:06 AM

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Initial Sample Wt:  
Dilution: 2X

Initial Sample Vol:  
Sample Prep Vol:

Mean Data: 20610122403 T

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	57506.6	82.285 %	0.2392			0.29%
Ar 420.067 R	1008509.0	82.862 %	0.1853			0.22%
Scandium-IS	3286545.6	115.17 %	7.255			6.30%
Yttrium, 7440-65-5A	1683623.4	111.00 %	6.915			6.23%
Yttrium, 7440-65-5R	110660.4	137.76 %	4.979			3.61%
Aluminum, 7429-90-5†	2214.8	2.678 mg/L	0.0971	5.356 mg/L	0.1943	3.63%
Antimony, 7440-36-0†	1813.2	0.2798 mg/L	0.01498	0.5596 mg/L	0.02996	5.35%
Arsenic, 7440-38-2†	1110.8	0.3141 mg/L	0.01646	0.6281 mg/L	0.03293	5.24%
Barium, 7440-39-3†	61776.8	0.3205 mg/L	0.0212	0.6411 mg/L	0.04254	6.64%
Beryllium, 7440-41-7†	1038674.7	0.2397 mg/L	0.01630	0.4794 mg/L	0.03260	6.80%
Boron, 7440-42-8†	185347.7	3.0387 mg/L	0.17974	6.0774 mg/L	0.35948	5.92%
Cadmium, 7440-43-9†	60439.4	0.2396 mg/L	0.01603	0.4793 mg/L	0.03206	6.69%
Calcium, 7440-70-2†	314438.5	165.7 mg/L	9.43	331.4 mg/L	18.86	5.69%
Chromium, 7440-47-3†	43751.8	0.2281 mg/L	0.01706	0.4562 mg/L	0.03412	7.48%
Cobalt, 7440-48-4†	14171.5	0.2484 mg/L	0.01316	0.4967 mg/L	0.02631	5.30%
Copper, 7440-50-8†	122741.2	0.3065 mg/L	0.02181	0.6130 mg/L	0.04363	7.12%
Iron, 7439-89-6†	3715.7	2.4694 mg/L	0.07980	4.9387 mg/L	0.15960	3.23%
Lead, 7439-92-1†	2793.4	0.2424 mg/L	0.01413	0.4848 mg/L	0.02825	5.83%
Lithium, 7439-93-2†	32795.7	0.5261 mg/L	0.03289	1.0521 mg/L	0.06578	6.25%
Magnesium, 7439-95-4†	139846.3	445.39 mg/L	24.130	890.77 mg/L	48.260	5.42%
Manganese, 7439-96-5†	246329.0	0.301 mg/L	0.0204	0.602 mg/L	0.0409	6.79%
Molybdenum, 7439-98-7†	8199.8	0.2528 mg/L	0.01347	0.5055 mg/L	0.02694	5.33%
Nickel, 7440-02-0†	13557.2	0.2352 mg/L	0.01298	0.4704 mg/L	0.02596	5.52%
Potassium, 7440-09-7†	383529.1	168.64 mg/L	8.247	337.29 mg/L	16.494	4.89%
Selenium, 7782-49-2†	527.0	0.2981 mg/L	0.01987	0.5962 mg/L	0.03974	6.67%
Silicon, 7440-21-3†	2053.5	2.0324 mg/L	0.05930	4.0647 mg/L	0.11861	2.92%
Silver, 7440-22-4†	90448.5	0.2851 mg/L	0.01759	0.5703 mg/L	0.03518	6.17%
Sodium, 7440-23-5†	Saturated2					
Strontium, 7440-24-6†	1431208.3	3.0036 mg/L	0.14809	6.0071 mg/L	0.29618	4.93%
Thallium, 7440-28-0†	1673.5	0.2517 mg/L	0.01325	0.5035 mg/L	0.02650	5.26%
Tin, 7440-31-5†	2124.7	0.2238 mg/L	0.01242	0.4475 mg/L	0.02484	5.55%
Titanium, 7440-32-6†	150061.4	0.2590 mg/L	0.02060	0.5180 mg/L	0.04119	7.95%
Vanadium, 7440-62-2†	30114.9	0.2633 mg/L	0.01807	0.5267 mg/L	0.03615	6.86%
Zinc, 7440-66-6†	52751.9	0.2606 mg/L	0.01900	0.5213 mg/L	0.03801	7.29%
Zirconium, 7440-67-7†	-4450.3	-0.0073 mg/L	0.00026	-0.0147 mg/L	0.00052	3.54%

Sequence No.: 27

Autosampler Location: 30

Sample ID: 20610122404 D

Date Collected: 10/13/2006 1:00:28 PM

Analyst:

Data Type: Reprocessed on 10/16/2006 9:33:08 AM

Logged In Analyst (Original) : met

Initial Sample Vol:

Initial Sample Wt:

Sample Prep Vol:

Mean Data: 20610122404 D

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	56379.7	80.673 %	0.4322			0.54%
Ar 420.067 R	990295.6	81.366 %	0.4039			0.50%
Scandium-IS	3394633.4	118.96 %	2.240			1.88%
Yttrium, 7440-65-5A	1739096.0	114.66 %	1.882			1.64%
Yttrium, 7440-65-5R	106716.9	132.85 %	0.164			0.12%
Aluminum, 7429-90-5†	-18.1	-0.017 mg/L	0.0041	-0.034 mg/L	0.0082	24.15%
Antimony, 7440-36-0†	-7.9	-0.0024 mg/L	0.00055	-0.0048 mg/L	0.00110	23.04%
Arsenic, 7440-38-2†	58.6	0.0211 mg/L	0.00082	0.0422 mg/L	0.00165	3.90%
Barium, 7440-39-3†	12165.6	0.0614 mg/L	0.00065	0.1228 mg/L	0.00129	1.05%
Beryllium, 7440-41-7†	-848.3	-0.0002 mg/L	0.00001	-0.0004 mg/L	0.00002	6.00%
Boron, 7440-42-8†	104625.3	1.7132 mg/L	0.00783	3.4264 mg/L	0.01565	0.46%
Cadmium, 7440-43-9†	-395.2	-0.0016 mg/L	0.00005	-0.0032 mg/L	0.00011	3.35%
Calcium, 7440-70-2†	339284.6	178.8 mg/L	0.71	357.6 mg/L	1.42	0.40%
Chromium, 7440-47-3†	1600.2	-0.0181 mg/L	0.00030	-0.0361 mg/L	0.00060	1.66%
Cobalt, 7440-48-4†	63.2	0.0018 mg/L	0.00022	0.0037 mg/L	0.00044	12.14%
Copper, 7440-50-8†	2344.7	-0.0020 mg/L	0.00043	-0.0040 mg/L	0.00087	21.83%

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Iron, 7439-89-6†	-55.8	-0.0369 mg/L	0.00318	-0.0739 mg/L	0.00637	8.62%
Lead, 7439-92-1†	-32.2	-0.0048 mg/L	0.00035	-0.0095 mg/L	0.00070	7.35%
Lithium, 7439-93-2†	7273.5	0.1181 mg/L	0.00147	0.2363 mg/L	0.00293	1.24%
Magnesium, 7439-95-4†	152717.2	486.38 mg/L	2.059	972.75 mg/L	4.118	0.42%
Manganese, 7439-96-5†	2069.6	0.002 mg/L	0.0001	0.003 mg/L	0.0003	7.68%
Molybdenum, 7439-98-7†	22.7	0.0002 mg/L	0.00016	0.0004 mg/L	0.00032	80.84%
Nickel, 7440-02-0†	11.6	0.0002 mg/L	0.00046	0.0004 mg/L	0.00091	224.03%
Potassium, 7440-09-7†	417974.6	183.79 mg/L	1.932	367.58 mg/L	3.865	1.05%
Selenium, 7782-49-2†	8.4	-0.0031 mg/L	0.00496	-0.0061 mg/L	0.00993	162.42%
Silicon, 7440-21-3†	1041.5	0.9016 mg/L	0.01266	1.8032 mg/L	0.02531	1.40%
Silver, 7440-22-4†	743.5	0.0008 mg/L	0.00013	0.0016 mg/L	0.00025	15.81%
Sodium, 7440-23-5†	Saturated2					
Strontium, 7440-24-6†	1471123.0	3.0872 mg/L	0.02823	6.1743 mg/L	0.05645	0.91%
Thallium, 7440-28-0†	45.2	0.0052 mg/L	0.00084	0.0104 mg/L	0.00168	16.24%
Tin, 7440-31-5†	-247.2	-0.0170 mg/L	0.00087	-0.0339 mg/L	0.00173	5.10%
Titanium, 7440-32-6†	181.2	0.0003 mg/L	0.00006	0.0006 mg/L	0.00011	17.71%
Vanadium, 7440-62-2†	-2373.4	0.0003 mg/L	0.00033	0.0006 mg/L	0.00065	111.22%
Zinc, 7440-66-6†	628.4	-0.0054 mg/L	0.00096	-0.0108 mg/L	0.00192	17.78%
Zirconium, 7440-67-7†	-5453.5	-0.0089 mg/L	0.00022	-0.0178 mg/L	0.00044	2.50%

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Sequence No.: 28

Autosampler Location: 31

Sample ID: 20610122404 T

Date Collected: 10/13/2006 1:07:11 PM

Analyst:

Data Type: Reprocessed on 10/16/2006 9:33:09 AM

Logged In Analyst (Original) : met

Initial Sample Wt:

Initial Sample Vol:

Dilution: 2X

Sample Prep Vol:

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Mean Data: 20610122404 T

Analyte	Mean Corrected	Calib	Sample			
	Intensity	Conc. Units	Conc. Units	Std.Dev.	Std.Dev.	RSD
Ar 363.268 A	55510.7	79.429 %	0.5109			0.64%
Ar 420.067 R	972285.7	79.886 %	0.1083			0.14%
Scandium-IS	3421429.6	119.90 %	3.083			2.57%
Yttrium, 7440-65-5A	1752146.4	115.52 %	2.884			2.50%
Yttrium, 7440-65-5R	109615.3	136.46 %	0.711			0.52%
Aluminum, 7429-90-5†	311.7	0.381 mg/L	0.0029	0.762 mg/L	0.0057	0.75%
Antimony, 7440-36-0†	-19.2	-0.0042 mg/L	0.00113	-0.0084 mg/L	0.00227	27.01%
Arsenic, 7440-38-2†	56.2	0.0208 mg/L	0.00094	0.0416 mg/L	0.00187	4.49%
Barium, 7440-39-3†	13215.0	0.0668 mg/L	0.00256	0.1336 mg/L	0.00511	3.83%
Beryllium, 7440-41-7†	-853.0	-0.0002 mg/L	0.00002	-0.0004 mg/L	0.00003	7.56%
Boron, 7440-42-8†	110985.3	1.8176 mg/L	0.06223	3.6351 mg/L	0.12445	3.42%
Cadmium, 7440-43-9†	-500.6	-0.0020 mg/L	0.00003	-0.0040 mg/L	0.00006	1.55%
Calcium, 7440-70-2†	349363.4	184.1 mg/L	0.34	368.2 mg/L	0.67	0.18%
Chromium, 7440-47-3†	1667.1	-0.0184 mg/L	0.00054	-0.0369 mg/L	0.00108	2.94%
Cobalt, 7440-48-4†	19.4	0.0010 mg/L	0.00017	0.0021 mg/L	0.00034	16.49%
Copper, 7440-50-8†	2435.8	-0.0021 mg/L	0.00098	-0.0042 mg/L	0.00196	47.07%
Iron, 7439-89-6†	339.1	0.2256 mg/L	0.00378	0.4511 mg/L	0.00756	1.67%
Lead, 7439-92-1†	-30.6	-0.0046 mg/L	0.00006	-0.0092 mg/L	0.00012	1.36%
Lithium, 7439-93-2†	7704.2	0.1251 mg/L	0.00062	0.2502 mg/L	0.00124	0.50%
Magnesium, 7439-95-4†	157055.5	500.19 mg/L	0.597	1000.4 mg/L	1.19	0.12%
Manganese, 7439-96-5†	41808.6	0.050 mg/L	0.0017	0.101 mg/L	0.0035	3.47%
Molybdenum, 7439-98-7†	14.0	-0.0001 mg/L	0.00041	-0.0002 mg/L	0.00081	530.22%
Nickel, 7440-02-0†	26.8	0.0004 mg/L	0.00010	0.0009 mg/L	0.00020	22.16%
Potassium, 7440-09-7†	438522.3	192.83 mg/L	0.967	385.65 mg/L	1.933	0.50%
Selenium, 7782-49-2†	8.3	-0.0032 mg/L	0.00605	-0.0063 mg/L	0.01209	190.51%
Silicon, 7440-21-3†	1874.2	1.8085 mg/L	0.01533	3.6169 mg/L	0.03066	0.85%
Silver, 7440-22-4†	777.2	0.0010 mg/L	0.00005	0.0020 mg/L	0.00011	5.52%
Sodium, 7440-23-5†	Saturated2					
Strontium, 7440-24-6†	1525208.8	3.2007 mg/L	0.02487	6.4014 mg/L	0.04974	0.78%
Thallium, 7440-28-0†	45.7	0.0053 mg/L	0.00055	0.0107 mg/L	0.00110	10.36%
Tin, 7440-31-5†	-261.3	-0.0182 mg/L	0.00115	-0.0363 mg/L	0.00230	6.32%
Titanium, 7440-32-6†	7141.5	0.0123 mg/L	0.00100	0.0247 mg/L	0.00200	8.11%
Vanadium, 7440-62-2†	-2163.6	0.0025 mg/L	0.00139	0.0051 mg/L	0.00277	54.62%
Zinc, 7440-66-6†	201.8	-0.0079 mg/L	0.00021	-0.0157 mg/L	0.00041	2.61%
Zirconium, 7440-67-7†	-5221.3	-0.0084 mg/L	0.00031	-0.0168 mg/L	0.00061	3.67%

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Sequence No.: 29

Autosampler Location: 32

Sample ID: 20610122405 D

Date Collected: 10/13/2006 1:13:56 PM

000072

Analyst:

Logged In Analyst (Original) : met

Initial Sample Wt:

Dilution: 2X

Data Type: Reprocessed on 10/16/2006 9:33:11 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 20610122405 D

Analyte	Mean Corrected Intensity	Calib	Sample		
	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Ar 363.268 A	56476.5	80.811 %	0.7908		0.98%
Ar 420.067 R	995809.2	81.819 %	0.3623		0.44%
Scandium-IS	3315553.9	116.19 %	2.291		1.97%
Yttrium,7440-65-5A	1696339.4	111.84 %	2.173		1.94%
Yttrium,7440-65-5R	104702.3	130.34 %	2.688		2.06%
Aluminum,7429-90-5†	-16.0	-0.014 mg/L	0.0090	-0.029 mg/L	0.0181 63.25%
Antimony,7440-36-0†	-15.7	-0.0037 mg/L	0.00075	-0.0073 mg/L	0.00151 20.61%
Arsenic,7440-38-2†	59.4	0.0216 mg/L	0.00121	0.0432 mg/L	0.00241 5.58%
Barium,7440-39-3†	12498.8	0.0630 mg/L	0.00047	0.1260 mg/L	0.00094 0.75%
Beryllium,7440-41-7†	-898.9	-0.0002 mg/L	0.00003	-0.0004 mg/L	0.00005 12.12%
Boron,7440-42-8†	107147.7	1.7544 mg/L	0.01970	3.5089 mg/L	0.03939 1.12%
Cadmium,7440-43-9†	-396.0	-0.0016 mg/L	0.00005	-0.0032 mg/L	0.00009 2.96%
Calcium,7440-70-2†	352339.9	185.7 mg/L	0.39	371.3 mg/L	0.78 0.21%
Chromium,7440-47-3†	1647.1	-0.0190 mg/L	0.00014	-0.0379 mg/L	0.00028 0.73%
Cobalt,7440-48-4†	-1.1	0.0007 mg/L	0.00021	0.0015 mg/L	0.00043 29.34%
Copper,7440-50-8†	2190.9	-0.0027 mg/L	0.00051	-0.0054 mg/L	0.00101 18.61%
Iron,7439-89-6†	-47.6	-0.0315 mg/L	0.00496	-0.0629 mg/L	0.00992 15.76%
Lead,7439-92-1†	-28.7	-0.0045 mg/L	0.00038	-0.0091 mg/L	0.00075 8.32%
Lithium,7439-93-2†	7604.4	0.1235 mg/L	0.00061	0.2470 mg/L	0.00123 0.50%
Magnesium,7439-95-4†	159310.9	507.38 mg/L	1.076	1014.8 mg/L	2.15 0.21%
Manganese,7439-96-5†	1536.5	0.001 mg/L	0.0001	0.002 mg/L	0.0001 7.79%
Molybdenum,7439-98-7†	14.3	-0.0001 mg/L	0.00017	-0.0002 mg/L	0.00034 209.01%
Nickel,7440-02-0†	-15.5	-0.0003 mg/L	0.00055	-0.0005 mg/L	0.00110 206.98%
Potassium,7440-09-7†	438443.1	192.79 mg/L	2.987	385.58 mg/L	5.973 1.55%
Selenium,7782-49-2†	-2.7	-0.0098 mg/L	0.00246	-0.0196 mg/L	0.00492 25.06%
Silicon,7440-21-3†	1082.0	0.9356 mg/L	0.00870	1.8712 mg/L	0.01740 0.93%
Silver,7440-22-4†	745.3	0.0008 mg/L	0.00012	0.0015 mg/L	0.00025 16.25%
Sodium,7440-23-5†	Saturated2				
Strontium,7440-24-6†	1532136.7	3.2152 mg/L	0.04027	6.4304 mg/L	0.08054 1.25%
Thallium,7440-28-0†	40.3	0.0044 mg/L	0.00104	0.0088 mg/L	0.00208 23.77%
Tin,7440-31-5†	-260.8	-0.0180 mg/L	0.00088	-0.0360 mg/L	0.00177 4.91%
Titanium,7440-32-6†	50.8	0.0001 mg/L	0.00016	0.0002 mg/L	0.00031 176.91%
Vanadium,7440-62-2†	-2382.8	0.0011 mg/L	0.00086	0.0021 mg/L	0.00172 80.52%
Zinc,7440-66-6†	-148.1	-0.0098 mg/L	0.00003	-0.0195 mg/L	0.00007 0.33%
Zirconium,7440-67-7†	-5590.2	-0.0091 mg/L	0.00005	-0.0182 mg/L	0.00010 0.53%

Sequence No.: 30

Autosampler Location: 33

Sample ID: 20610122405 T

Date Collected: 10/13/2006 1:20:39 PM

Analyst:

Data Type: Reprocessed on 10/16/2006 9:33:13 AM

Logged In Analyst (Original) : met

Initial Sample Vol:

Initial Sample Wt:

Sample Prep Vol:

Dilution: 2X

Mean Data: 20610122405 T

Analyte	Mean Corrected Intensity	Calib	Sample		
	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Ar 363.268 A	56525.7	80.882 %	0.9056		1.12%
Ar 420.067 R	1000303.9	82.188 %	0.2798		0.34%
Scandium-IS	3281814.1	115.01 %	3.174		2.76%
Yttrium,7440-65-5A	1678788.2	110.68 %	3.174		2.87%
Yttrium,7440-65-5R	105944.5	131.89 %	1.762		1.34%
Aluminum,7429-90-5†	322.1	0.393 mg/L	0.0184	0.787 mg/L	0.0368 4.67%
Antimony,7440-36-0†	-12.1	-0.0031 mg/L	0.00026	-0.0062 mg/L	0.00051 8.33%
Arsenic,7440-38-2†	55.9	0.0207 mg/L	0.00123	0.0413 mg/L	0.00246 5.95%
Barium,7440-39-3†	12878.3	0.0651 mg/L	0.00218	0.1302 mg/L	0.00437 3.36%
Beryllium,7440-41-7†	-778.8	-0.0002 mg/L	0.00002	-0.0004 mg/L	0.00004 9.78%
Boron,7440-42-8†	107391.4	1.7587 mg/L	0.08992	3.5174 mg/L	0.17984 5.11%
Cadmium,7440-43-9†	-477.6	-0.0019 mg/L	0.00001	-0.0039 mg/L	0.00003 0.73%
Calcium,7440-70-2†	340361.3	179.4 mg/L	0.53	358.7 mg/L	1.06 0.30%
Chromium,7440-47-3†	2178.3	-0.0148 mg/L	0.00020	-0.0296 mg/L	0.00039 1.32%

000073

Cobalt,7440-48-4†	-10.5	0.0005 mg/L	0.00028	0.0010 mg/L	0.00057	59.01%
Copper,7440-50-8†	3076.0	-0.0004 mg/L	0.00132	-0.0009 mg/L	0.00264	303.39%
Iron,7439-89-6†	382.3	0.2543 mg/L	0.00690	0.5086 mg/L	0.01380	2.71%
Lead,7439-92-1†	-36.8	-0.0051 mg/L	0.00178	-0.0102 mg/L	0.00357	34.90%
Lithium,7439-93-2†	7182.6	0.1167 mg/L	0.00043	0.2334 mg/L	0.00086	0.37%
Magnesium,7439-95-4†	152878.3	486.89 mg/L	0.469	973.78 mg/L	0.939	0.10%
Manganese,7439-96-5†	130430.1	0.159 mg/L	0.0084	0.318 mg/L	0.0167	5.26%
Molybdenum,7439-98-7†	9.0	-0.0002 mg/L	0.00030	-0.0004 mg/L	0.00061	146.27%
Nickel,7440-02-0†	97.1	0.0016 mg/L	0.00033	0.0033 mg/L	0.00067	20.29%
Potassium,7440-09-7†	411221.1	180.82 mg/L	2.538	361.64 mg/L	5.077	1.40%
Selenium,7782-49-2†	4.3	-0.0054 mg/L	0.00728	-0.0108 mg/L	0.01456	135.16%
Silicon,7440-21-3†	1837.6	1.7749 mg/L	0.02862	3.5498 mg/L	0.05724	1.61%
Silver,7440-22-4†	761.0	0.0009 mg/L	0.00014	0.0019 mg/L	0.00027	14.23%
Sodium,7440-23-5†	Saturated2					
Strontium,7440-24-6†	1454466.2	3.0522 mg/L	0.03907	6.1043 mg/L	0.07813	1.28%
Thallium,7440-28-0†	38.1	0.0043 mg/L	0.00154	0.0087 mg/L	0.00309	35.52%
Tin,7440-31-5†	-277.9	-0.0201 mg/L	0.00015	-0.0401 mg/L	0.00030	0.76%
Titanium,7440-32-6†	7128.0	0.0123 mg/L	0.00209	0.0246 mg/L	0.00418	17.01%
Vanadium,7440-62-2†	-2143.2	0.0022 mg/L	0.00104	0.0043 mg/L	0.00209	48.55%
Zinc,7440-66-6†	-5.1	-0.0087 mg/L	0.00024	-0.0175 mg/L	0.00048	2.74%
Zirconium,7440-67-7†	-5354.8	-0.0087 mg/L	0.00036	-0.0174 mg/L	0.00073	4.18%

Sequence No.: 31

Sample ID: ---

Analyst:

Logged In Analyst (Original) : met

Initial Sample Wt:

Dilution: 1X

Autosampler Location: 34

Date Collected: 10/13/2006 1:27:23 PM

Data Type: Reprocessed on 10/16/2006 9:33:15 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ---

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	70802.4	101.31 %	1.007			0.99%
Ar 420.067 R	1179579.0	96.918 %	0.6137			0.63%
Scandium-IS	3782365.5	132.55 %	12.880			9.72%
Yttrium,7440-65-5A	2013715.2	132.77 %	12.480			9.40%
Yttrium,7440-65-5R	118042.1	146.95 %	3.669			2.50%
Aluminum,7429-90-5†	-27.7	-0.033 mg/L	0.0123	-0.033 mg/L	0.0123	36.74%
Antimony,7440-36-0†	-33.4	-0.0052 mg/L	0.00135	-0.0052 mg/L	0.00135	25.78%
Arsenic,7440-38-2†	24.5	0.0066 mg/L	0.00374	0.0066 mg/L	0.00374	56.46%
Barium,7440-39-3†	17.1	0.0001 mg/L	0.00020	0.0001 mg/L	0.00020	217.75%
Beryllium,7440-41-7†	-380.0	-0.0001 mg/L	0.00002	-0.0001 mg/L	0.00002	20.98%
Boron,7440-42-8†	3121.4	0.0512 mg/L	0.00508	0.0512 mg/L	0.00508	9.93%
Cadmium,7440-43-9†	-128.5	-0.0005 mg/L	0.00026	-0.0005 mg/L	0.00026	51.71%
Calcium,7440-70-2†	-36.3	-0.019 mg/L	0.0018	-0.019 mg/L	0.0018	9.22%
Chromium,7440-47-3†	-295.2	-0.0017 mg/L	0.00027	-0.0017 mg/L	0.00027	15.52%
Cobalt,7440-48-4†	64.4	0.0011 mg/L	0.00031	0.0011 mg/L	0.00031	26.91%
Copper,7440-50-8†	-975.3	-0.0025 mg/L	0.00241	-0.0025 mg/L	0.00241	96.27%
Iron,7439-89-6†	-46.6	-0.0310 mg/L	0.00145	-0.0310 mg/L	0.00145	4.69%
Lead,7439-92-1†	4.0	0.0004 mg/L	0.00096	0.0004 mg/L	0.00096	273.79%
Lithium,7439-93-2†	-147.8	-0.0024 mg/L	0.00025	-0.0024 mg/L	0.00025	10.72%
Magnesium,7439-95-4†	18.0	0.0573 mg/L	0.00500	0.0573 mg/L	0.00500	8.73%
Manganese,7439-96-5†	-392.2	0.000 mg/L	0.0002	0.000 mg/L	0.0002	35.61%
Molybdenum,7439-98-7†	14.2	0.0004 mg/L	0.00004	0.0004 mg/L	0.00004	10.16%
Nickel,7440-02-0†	-19.5	-0.0003 mg/L	0.00026	-0.0003 mg/L	0.00026	76.65%
Potassium,7440-09-7†	611.0	0.2687 mg/L	0.01596	0.2687 mg/L	0.01596	5.94%
Selenium,7782-49-2†	19.3	0.0111 mg/L	0.00346	0.0111 mg/L	0.00346	31.10%
Silicon,7440-21-3†	-30.5	-0.0335 mg/L	0.00250	-0.0335 mg/L	0.00250	7.46%
Silver,7440-22-4†	156.4	0.0005 mg/L	0.00022	0.0005 mg/L	0.00022	46.94%
Sodium,7440-23-5†	13977.4	2.4511 mg/L	0.10745	2.4511 mg/L	0.10745	4.38%
Strontium,7440-24-6†	218.0	0.0005 mg/L	0.00012	0.0005 mg/L	0.00012	25.65%
Thallium,7440-28-0†	17.3	0.0026 mg/L	0.00110	0.0026 mg/L	0.00110	42.23%
Tin,7440-31-5†	-3.1	-0.0003 mg/L	0.00494	-0.0003 mg/L	0.00494	>999.9%
Titanium,7440-32-6†	268.4	0.0005 mg/L	0.00008	0.0005 mg/L	0.00008	18.29%
Vanadium,7440-62-2†	-148.4	-0.0012 mg/L	0.00407	-0.0012 mg/L	0.00407	337.97%
Zinc,7440-66-6†	-251.5	-0.0013 mg/L	0.00078	-0.0013 mg/L	0.00078	60.72%
Zirconium,7440-67-7†	-441.4	-0.0009 mg/L	0.00009	-0.0009 mg/L	0.00009	10.41%

000074

Sequence No.: 32

Sample ID: ---

Analyst:

Logged In Analyst (Original) : met

Initial Sample Wt:

Dilution: 1X

Autosampler Location: 35

Date Collected: 10/13/2006 1:34:12 PM

Data Type: Reprocessed on 10/16/2006 9:33:17 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ---

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	70736.3	101.22 %	0.505			0.50%
Ar 420.067 R	1183079.4	97.205 %	0.2803			0.29%
Scandium-IS	3943890.1	138.21 %	1.608			1.16%
Yttrium, 7440-65-5A	2092492.9	137.96 %	1.457			1.06%
Yttrium, 7440-65-5R	116864.9	145.48 %	1.628			1.12%
Aluminum, 7429-90-5†	-31.2	-0.038 mg/L	0.0013	-0.038 mg/L	0.0013	3.51%
Antimony, 7440-36-0†	-26.7	-0.0042 mg/L	0.00139	-0.0042 mg/L	0.00139	33.32%
Arsenic, 7440-38-2†	28.8	0.0077 mg/L	0.00201	0.0077 mg/L	0.00201	25.94%
Barium, 7440-39-3†	-26.0	-0.0001 mg/L	0.00010	-0.0001 mg/L	0.00010	72.38%
Beryllium, 7440-41-7†	-372.3	-0.0001 mg/L	0.00001	-0.0001 mg/L	0.00001	10.64%
Boron, 7440-42-8†	2558.5	0.0419 mg/L	0.00114	0.0419 mg/L	0.00114	2.71%
Cadmium, 7440-43-9†	-150.8	-0.0006 mg/L	0.00002	-0.0006 mg/L	0.00002	3.31%
Calcium, 7440-70-2†	-39.1	-0.021 mg/L	0.0090	-0.021 mg/L	0.0090	43.71%
Chromium, 7440-47-3†	-324.7	-0.0019 mg/L	0.00008	-0.0019 mg/L	0.00008	4.21%
Cobalt, 7440-48-4†	68.5	0.0012 mg/L	0.00004	0.0012 mg/L	0.00004	3.17%
Copper, 7440-50-8†	-1529.5	-0.0039 mg/L	0.00051	-0.0039 mg/L	0.00051	13.01%
Iron, 7439-89-6†	-40.1	-0.0267 mg/L	0.00146	-0.0267 mg/L	0.00146	5.49%
Lead, 7439-92-1†	0.8	0.0001 mg/L	0.00029	0.0001 mg/L	0.00029	392.41%
Lithium, 7439-93-2†	-179.4	-0.0029 mg/L	0.00006	-0.0029 mg/L	0.00006	2.24%
Magnesium, 7439-95-4†	11.1	0.0353 mg/L	0.00746	0.0353 mg/L	0.00746	21.15%
Manganese, 7439-96-5†	-535.6	-0.001 mg/L	0.00000	-0.001 mg/L	0.00000	3.03%
Molybdenum, 7439-98-7†	23.9	0.0007 mg/L	0.00018	0.0007 mg/L	0.00018	24.98%
Nickel, 7440-02-0†	-5.3	-0.0001 mg/L	0.00008	-0.0001 mg/L	0.00008	82.61%
Potassium, 7440-09-7†	414.7	0.1823 mg/L	0.00502	0.1823 mg/L	0.00502	2.76%
Selenium, 7782-49-2†	19.3	0.0111 mg/L	0.00106	0.0111 mg/L	0.00106	9.51%
Silicon, 7440-21-3†	-32.6	-0.0358 mg/L	0.00357	-0.0358 mg/L	0.00357	9.96%
Silver, 7440-22-4†	175.2	0.0005 mg/L	0.00017	0.0005 mg/L	0.00017	34.42%
Sodium, 7440-23-5†	8235.8	1.4443 mg/L	0.02597	1.4443 mg/L	0.02597	1.80%
Strontium, 7440-24-6†	176.1	0.0004 mg/L	0.00007	0.0004 mg/L	0.00007	19.99%
Thallium, 7440-28-0†	11.2	0.0017 mg/L	0.00089	0.0017 mg/L	0.00089	52.63%
Tin, 7440-31-5†	-35.8	-0.0036 mg/L	0.00017	-0.0036 mg/L	0.00017	4.67%
Titanium, 7440-32-6†	159.5	0.0003 mg/L	0.00011	0.0003 mg/L	0.00011	40.43%
Vanadium, 7440-62-2†	-405.0	-0.0033 mg/L	0.00097	-0.0033 mg/L	0.00097	29.35%
Zinc, 7440-66-6†	-380.0	-0.0019 mg/L	0.00017	-0.0019 mg/L	0.00017	8.94%
Zirconium, 7440-67-7†	-492.4	-0.0010 mg/L	0.00012	-0.0010 mg/L	0.00012	12.02%

Sequence No.: 33

Sample ID: ---

Analyst:

Logged In Analyst (Original) : met

Initial Sample Wt:

Dilution: 1X

Autosampler Location: 36

Date Collected: 10/13/2006 1:41:01 PM

Data Type: Reprocessed on 10/16/2006 9:33:18 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ---

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	70549.9	100.95 %	0.124			0.12%
Ar 420.067 R	1181830.8	97.103 %	0.5211			0.54%
Scandium-IS	3924057.6	137.51 %	2.676			1.95%
Yttrium, 7440-65-5A	2079264.1	137.09 %	2.757			2.01%
Yttrium, 7440-65-5R	117315.2	146.04 %	1.947			1.33%
Aluminum, 7429-90-5†	-32.6	-0.039 mg/L	0.0073	-0.039 mg/L	0.0073	18.50%
Antimony, 7440-36-0†	-27.9	-0.0043 mg/L	0.00082	-0.0043 mg/L	0.00082	18.91%
Arsenic, 7440-38-2†	32.3	0.0087 mg/L	0.00085	0.0087 mg/L	0.00085	9.76%
Barium, 7440-39-3†	11.4	0.0001 mg/L	0.00032	0.0001 mg/L	0.00032	507.03%
Beryllium, 7440-41-7†	-370.1	-0.0001 mg/L	0.00002	-0.0001 mg/L	0.00002	25.10%
Boron, 7440-42-8†	2191.4	0.0359 mg/L	0.00081	0.0359 mg/L	0.00081	2.25%
Cadmium, 7440-43-9†	-140.6	-0.0006 mg/L	0.00004	-0.0006 mg/L	0.00004	7.48%

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Calcium,7440-70-2†	-57.2	-0.030 mg/L	0.0032	-0.030 mg/L	0.0032	10.72%
Chromium,7440-47-3†	-325.5	-0.0019 mg/L	0.00010	-0.0019 mg/L	0.00010	5.16%
Cobalt,7440-48-4†	73.9	0.0013 mg/L	0.00012	0.0013 mg/L	0.00012	9.34%
Copper,7440-50-8†	-1228.0	-0.0031 mg/L	0.00030	-0.0031 mg/L	0.00030	9.68%
Iron,7439-89-6†	-42.8	-0.0284 mg/L	0.00099	-0.0284 mg/L	0.00099	3.47%
Lead,7439-92-1†	6.4	0.0006 mg/L	0.00042	0.0006 mg/L	0.00042	75.56%
Lithium,7439-93-2†	-97.8	-0.0016 mg/L	0.00055	-0.0016 mg/L	0.00055	35.45%
Magnesium,7439-95-4†	9.6	0.0305 mg/L	0.00364	0.0305 mg/L	0.00364	11.93%
Manganese,7439-96-5†	-497.1	-0.001 mg/L	0.00001	-0.001 mg/L	0.00001	21.54%
Molybdenum,7439-98-7†	12.7	0.0004 mg/L	0.00024	0.0004 mg/L	0.00024	61.14%
Nickel,7440-02-0†	-12.9	-0.0002 mg/L	0.00011	-0.0002 mg/L	0.00011	47.90%
Potassium,7440-09-7†	401.8	0.1767 mg/L	0.01753	0.1767 mg/L	0.01753	9.92%
Selenium,7782-49-2†	21.0	0.0121 mg/L	0.00209	0.0121 mg/L	0.00209	17.26%
Silicon,7440-21-3†	-31.7	-0.0348 mg/L	0.00133	-0.0348 mg/L	0.00133	3.82%
Silver,7440-22-4†	176.3	0.0005 mg/L	0.00015	0.0005 mg/L	0.00015	29.55%
Sodium,7440-23-5†	6546.3	1.1480 mg/L	0.01850	1.1480 mg/L	0.01850	1.61%
Strontium,7440-24-6†	99.6	0.0002 mg/L	0.00005	0.0002 mg/L	0.00005	24.79%
Thallium,7440-28-0†	19.4	0.0029 mg/L	0.00080	0.0029 mg/L	0.00080	27.55%
Tin,7440-31-5†	-38.5	-0.0039 mg/L	0.00045	-0.0039 mg/L	0.00045	11.58%
Titanium,7440-32-6†	148.3	0.0003 mg/L	0.00017	0.0003 mg/L	0.00017	66.15%
Vanadium,7440-62-2†	-363.1	-0.0030 mg/L	0.00103	-0.0030 mg/L	0.00103	34.82%
Zinc,7440-66-6†	-256.9	-0.0013 mg/L	0.00090	-0.0013 mg/L	0.00090	68.37%
Zirconium,7440-67-7†	-526.3	-0.0011 mg/L	0.00005	-0.0011 mg/L	0.00005	4.33%

Sequence No.: 34

Autosampler Location: 7

Sample ID: 1800

Date Collected: 10/13/2006 1:47:51 PM

Analyst:

Data Type: Reprocessed on 10/16/2006 9:33:20 AM

Logged In Analyst (Original) : met

Initial Sample Vol:

Initial Sample Wt:

Dilution:

Sample Prep Vol:

## Mean Data: 1800

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	70301.3	100.59 %	0.844			0.84%
Ar 420.067 R	1175110.2	96.551 %	0.1073			0.11%
Scandium-IS	4135082.7	144.91 %	4.778			3.30%
Yttrium,7440-65-5A	2176569.7	143.50 %	4.707			3.28%
Yttrium,7440-65-5R	1203124.4	149.77 %	0.493			0.33%
Aluminum,7429-90-5†	3859.0	4.659 mg/L	0.0347	4.659 mg/L	0.0347	0.74%
QC value within limits for Aluminum,7429-90-5		Recovery = 93.18%				
Antimony,7440-36-0†	3141.2	0.4857 mg/L	0.01710	0.4857 mg/L	0.01710	3.52%
QC value within limits for Antimony,7440-36-0		Recovery = 97.14%				
Arsenic,7440-38-2†	1910.2	0.5330 mg/L	0.01728	0.5330 mg/L	0.01728	3.24%
QC value within limits for Arsenic,7440-38-2		Recovery = 106.60%				
Barium,7440-39-3†	95792.2	0.5000 mg/L	0.00994	0.5000 mg/L	0.00994	1.99%
QC value within limits for Barium,7440-39-3		Recovery = 100.01%				
Beryllium,7440-41-7†	2131780.3	0.4921 mg/L	0.02136	0.4921 mg/L	0.02136	4.34%
QC value within limits for Beryllium,7440-41-7		Recovery = 98.41%				
Boron,7440-42-8†	152294.6	2.5005 mg/L	0.03927	2.5005 mg/L	0.03927	1.57%
QC value within limits for Boron,7440-42-8		Recovery = 100.02%				
Cadmium,7440-43-9†	126240.9	0.5007 mg/L	0.01055	0.5007 mg/L	0.01055	2.11%
QC value within limits for Cadmium,7440-43-9		Recovery = 100.14%				
Calcium,7440-70-2†	9771.1	5.148 mg/L	0.0099	5.148 mg/L	0.0099	0.19%
QC value within limits for Calcium,7440-70-2		Recovery = 102.95%				
Chromium,7440-47-3†	85450.3	0.4941 mg/L	0.00937	0.4941 mg/L	0.00937	1.90%
QC value within limits for Chromium,7440-47-3		Recovery = 98.82%				
Cobalt,7440-48-4†	28548.9	0.4993 mg/L	0.01028	0.4993 mg/L	0.01028	2.06%
QC value within limits for Cobalt,7440-48-4		Recovery = 99.86%				
Copper,7440-50-8†	189837.5	0.4851 mg/L	0.00971	0.4851 mg/L	0.00971	2.00%
QC value within limits for Copper,7440-50-8		Recovery = 97.03%				
Iron,7439-89-6†	7596.5	5.0483 mg/L	0.00915	5.0483 mg/L	0.00915	0.18%
QC value within limits for Iron,7439-89-6		Recovery = 100.97%				
Lead,7439-92-1†	5731.5	0.5011 mg/L	0.01587	0.5011 mg/L	0.01587	3.17%
QC value within limits for Lead,7439-92-1		Recovery = 100.22%				
Lithium,7439-93-2†	29488.7	0.4716 mg/L	0.00162	0.4716 mg/L	0.00162	0.34%
QC value within limits for Lithium,7439-93-2		Recovery = 94.31%				
Magnesium,7439-95-4†	1542.7	4.9151 mg/L	0.03264	4.9151 mg/L	0.03264	0.66%
QC value within limits for Magnesium,7439-95-4		Recovery = 98.30%				

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Manganese, 7439-96-5† 407308.5 0.499 mg/L 0.0100 0.499 mg/L 0.0100 2.01%  
   QC value within limits for Manganese, 7439-96-5 Recovery = 99.80%  
 Molybdenum, 7439-98-7† 15834.0 0.4890 mg/L 0.01652 0.4890 mg/L 0.01652 3.38%  
   QC value within limits for Molybdenum, 7439-98-7 Recovery = 97.80%  
 Nickel, 7440-02-0† 28625.3 0.4967 mg/L 0.01023 0.4967 mg/L 0.01023 2.06%  
   QC value within limits for Nickel, 7440-02-0 Recovery = 99.35%  
 Potassium, 7440-09-7† 21726.6 9.5522 mg/L 0.01349 9.5522 mg/L 0.01349 0.14%  
   QC value within limits for Potassium, 7440-09-7 Recovery = 95.52%  
 Selenium, 7782-49-2† 902.0 0.5229 mg/L 0.01706 0.5229 mg/L 0.01706 3.26%  
   QC value within limits for Selenium, 7782-49-2 Recovery = 104.58%  
 Silicon, 7440-21-3† 402.0 0.4387 mg/L 0.00419 0.4387 mg/L 0.00419 0.95%  
   QC value less than the lower limit for Silicon, 7440-21-3 Recovery = 87.73%  
 Silver, 7440-22-4† 154504.1 0.4903 mg/L 0.00943 0.4903 mg/L 0.00943 1.92%  
   QC value within limits for Silver, 7440-22-4 Recovery = 98.06%  
 Sodium, 7440-23-5† 110231.8 19.329 mg/L 0.0599 19.329 mg/L 0.0599 0.31%  
   QC value within limits for Sodium, 7440-23-5 Recovery = 96.64%  
 Strontium, 7440-24-6† 232666.9 0.4887 mg/L 0.00582 0.4887 mg/L 0.00582 1.19%  
   QC value within limits for Strontium, 7440-24-6 Recovery = 97.74%  
 Thallium, 7440-28-0† 3329.0 0.5035 mg/L 0.01735 0.5035 mg/L 0.01735 3.45%  
   QC value within limits for Thallium, 7440-28-0 Recovery = 100.69%  
 Tin, 7440-31-5† 4911.7 0.5000 mg/L 0.01773 0.5000 mg/L 0.01773 3.55%  
   QC value within limits for Tin, 7440-31-5 Recovery = 99.99%  
 Titanium, 7440-32-6† 285032.7 0.4920 mg/L 0.02093 0.4920 mg/L 0.02093 4.25%  
   QC value within limits for Titanium, 7440-32-6 Recovery = 98.39%  
 Vanadium, 7440-62-2† 60252.3 0.4911 mg/L 0.00902 0.4911 mg/L 0.00902 1.84%  
   QC value within limits for Vanadium, 7440-62-2 Recovery = 98.22%  
 Zinc, 7440-66-6† 96163.5 0.4891 mg/L 0.01024 0.4891 mg/L 0.01024 2.09%  
   QC value within limits for Zinc, 7440-66-6 Recovery = 97.82%  
 Zirconium, 7440-67-7† 238489.3 0.4873 mg/L 0.00945 0.4873 mg/L 0.00945 1.94%  
   QC value within limits for Zirconium, 7440-67-7 Recovery = 97.46%  
 QC Failed. Continue with analysis.

Sequence No.: 35

Sample ID: 1900

Analyst:

Logged In Analyst (Original) : met

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 10/13/2006 1:54:47 PM

Data Type: Reprocessed on 10/16/2006 9:33:22 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 1900

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	70741.2	101.22 %	0.208			0.21%
Ar 420.067 R	1179552.5	96.916 %	0.3595			0.37%
Scandium-IS	3915573.0	137.22 %	7.030			5.12%
Yttrium, 7440-65-5A	2080282.0	137.15 %	6.919			5.04%
Yttrium, 7440-65-5R	118765.3	147.85 %	0.261			0.18%
Aluminum, 7429-90-5†	-31.0	-0.037 mg/L	0.0046	-0.037 mg/L	0.0046	12.19%
		QC value within limits for Aluminum, 7429-90-5	Recovery = Not calculated			
Antimony, 7440-36-0†	-23.2	-0.0036 mg/L	0.00121	-0.0036 mg/L	0.00121	33.41%
		QC value within limits for Antimony, 7440-36-0	Recovery = Not calculated			
Arsenic, 7440-38-2†	19.9	0.0053 mg/L	0.00346	0.0053 mg/L	0.00346	64.75%
		QC value within limits for Arsenic, 7440-38-2	Recovery = Not calculated			
Barium, 7440-39-3†	-10.7	-0.0001 mg/L	0.00004	-0.0001 mg/L	0.00004	78.64%
		QC value within limits for Barium, 7440-39-3	Recovery = Not calculated			
Beryllium, 7440-41-7†	-239.3	-0.0001 mg/L	0.00001	-0.0001 mg/L	0.00001	23.36%
		QC value within limits for Beryllium, 7440-41-7	Recovery = Not calculated			
Boron, 7440-42-8†	2983.2	0.0489 mg/L	0.00216	0.0489 mg/L	0.00216	4.43%
		QC value within limits for Boron, 7440-42-8	Recovery = Not calculated			
Cadmium, 7440-43-9†	-131.0	-0.0005 mg/L	0.00007	-0.0005 mg/L	0.00007	14.38%
		QC value within limits for Cadmium, 7440-43-9	Recovery = Not calculated			
Calcium, 7440-70-2†	-41.5	-0.022 mg/L	0.0023	-0.022 mg/L	0.0023	10.50%
		QC value within limits for Calcium, 7440-70-2	Recovery = Not calculated			
Chromium, 7440-47-3†	-284.1	-0.0017 mg/L	0.00021	-0.0017 mg/L	0.00021	12.95%
		QC value within limits for Chromium, 7440-47-3	Recovery = Not calculated			
Cobalt, 7440-48-4†	78.3	0.0014 mg/L	0.00031	0.0014 mg/L	0.00031	22.62%
		QC value within limits for Cobalt, 7440-48-4	Recovery = Not calculated			
Copper, 7440-50-8†	-1014.3	-0.0026 mg/L	0.00136	-0.0026 mg/L	0.00136	52.54%
		QC value within limits for Copper, 7440-50-8	Recovery = Not calculated			

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Iron, 7439-89-6† -41.3 -0.0275 mg/L 0.00013 -0.0275 mg/L 0.00013 0.48%  
QC value within limits for Iron, 7439-89-6 Recovery = Not calculated  
Lead, 7439-92-1† 4.2 0.0004 mg/L 0.00041 0.0004 mg/L 0.00041 109.95%  
QC value within limits for Lead, 7439-92-1 Recovery = Not calculated  
Lithium, 7439-93-2† -107.4 -0.0017 mg/L 0.00006 -0.0017 mg/L 0.00006 3.73%  
QC value within limits for Lithium, 7439-93-2 Recovery = Not calculated  
Magnesium, 7439-95-4† 6.7 0.0212 mg/L 0.01376 0.0212 mg/L 0.01376 64.87%  
QC value within limits for Magnesium, 7439-95-4 Recovery = Not calculated  
Manganese, 7439-96-5† -416.2 -0.001 mg/L 0.0001 -0.001 mg/L 0.0001 14.45%  
QC value within limits for Manganese, 7439-96-5 Recovery = Not calculated  
Molybdenum, 7439-98-7† 14.0 0.0004 mg/L 0.00029 0.0004 mg/L 0.00029 67.12%  
QC value within limits for Molybdenum, 7439-98-7 Recovery = Not calculated  
Nickel, 7440-02-0† -17.8 -0.0003 mg/L 0.00033 -0.0003 mg/L 0.00033 107.22%  
QC value within limits for Nickel, 7440-02-0 Recovery = Not calculated  
Potassium, 7440-09-7† 305.4 0.1343 mg/L 0.02505 0.1343 mg/L 0.02505 18.65%  
QC value within limits for Potassium, 7440-09-7 Recovery = Not calculated  
Selenium, 7782-49-2† 13.4 0.0077 mg/L 0.00193 0.0077 mg/L 0.00193 25.00%  
QC value within limits for Selenium, 7782-49-2 Recovery = Not calculated  
Silicon, 7440-21-3† -32.1 -0.0352 mg/L 0.00244 -0.0352 mg/L 0.00244 6.93%  
QC value within limits for Silicon, 7440-21-3 Recovery = Not calculated  
Silver, 7440-22-4† 164.9 0.0005 mg/L 0.00021 0.0005 mg/L 0.00021 43.75%  
QC value within limits for Silver, 7440-22-4 Recovery = Not calculated  
Sodium, 7440-23-5† 4053.2 0.7108 mg/L 0.01438 0.7108 mg/L 0.01438 2.02%  
QC value within limits for Sodium, 7440-23-5 Recovery = Not calculated  
Strontium, 7440-24-6† 14.5 0.0000 mg/L 0.00008 0.0000 mg/L 0.00008 264.65%  
QC value within limits for Strontium, 7440-24-6 Recovery = Not calculated  
Thallium, 7440-28-0† 28.2 0.0042 mg/L 0.00055 0.0042 mg/L 0.00055 13.08%  
QC value within limits for Thallium, 7440-28-0 Recovery = Not calculated  
Tin, 7440-31-5† -28.2 -0.0029 mg/L 0.00057 -0.0029 mg/L 0.00057 19.88%  
QC value within limits for Tin, 7440-31-5 Recovery = Not calculated  
Titanium, 7440-32-6† 297.2 0.0005 mg/L 0.00009 0.0005 mg/L 0.00009 18.13%  
QC value within limits for Titanium, 7440-32-6 Recovery = Not calculated  
Vanadium, 7440-62-2† -313.7 -0.0026 mg/L 0.00193 -0.0026 mg/L 0.00193 75.54%  
QC value within limits for Vanadium, 7440-62-2 Recovery = Not calculated  
Zinc, 7440-66-6† -253.0 -0.0013 mg/L 0.00027 -0.0013 mg/L 0.00027 20.93%  
QC value within limits for Zinc, 7440-66-6 Recovery = Not calculated  
Zirconium, 7440-67-7† 142.4 0.0003 mg/L 0.00007 0.0003 mg/L 0.00007 22.47%  
QC value within limits for Zirconium, 7440-67-7 Recovery = Not calculated  
All analyte(s) passed QC.

=====

Sequence No.: 36  
Sample ID: 20610122406 D  
Analyst:  
Logged In Analyst (Original) : met  
Initial Sample Wt:  
Dilution: 1X

Autosampler Location: 37  
Date Collected: 10/13/2006 2:00:46 PM  
Data Type: Reprocessed on 10/16/2006 9:33:23 AM  
Initial Sample Vol:  
Sample Prep Vol:

Mean Data: 20610122406 D

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc. Units			Conc. Units	Conc. Units		
Ar 363.268 A	61075.6	87.392 %	0.2917				0.0026	0.33%
Ar 420.067 R	1060701.6	87.150 %	0.9890				0.00070	1.13%
Scandium-IS	3755010.4	131.59 %	1.216					0.92%
Yttrium, 7440-65-5A	1929522.3	127.21 %	1.218					0.96%
Yttrium, 7440-65-5R	112436.4	139.97 %	1.000					0.71%
Aluminum, 7429-90-5†	-6.9	-0.007 mg/L	0.0026	-0.007 mg/L			0.0026	36.89%
Antimony, 7440-36-0†	-24.9	-0.0044 mg/L	0.00070	-0.0044 mg/L			0.00070	15.87%
Arsenic, 7440-38-2†	52.1	0.0174 mg/L	0.00073	0.0174 mg/L			0.00073	4.19%
Barium, 7440-39-3†	24999.2	0.1295 mg/L	0.00113	0.1295 mg/L			0.00113	0.87%
Beryllium, 7440-41-7†	-813.4	-0.0002 mg/L	0.00000	-0.0002 mg/L			0.00000	0.67%
Boron, 7440-42-8†	145686.9	2.3880 mg/L	0.02113	2.3880 mg/L			0.02113	0.88%
Cadmium, 7440-43-9†	-721.2	-0.0030 mg/L	0.00004	-0.0030 mg/L			0.00004	1.21%
Calcium, 7440-70-2†	227949.1	120.1 mg/L	1.52	120.1 mg/L			1.52	1.26%
Chromium, 7440-47-3†	1003.6	-0.0082 mg/L	0.00008	-0.0082 mg/L			0.00008	1.02%
Cobalt, 7440-48-4†	160.0	0.0031 mg/L	0.00010	0.0031 mg/L			0.00010	3.23%
Copper, 7440-50-8†	1354.6	-0.0025 mg/L	0.00017	-0.0025 mg/L			0.00017	6.97%
Iron, 7439-89-6†	-28.2	-0.0184 mg/L	0.00239	-0.0184 mg/L			0.00239	13.01%
Lead, 7439-92-1†	-23.0	-0.0029 mg/L	0.00037	-0.0029 mg/L			0.00037	12.78%
Lithium, 7439-93-2†	5761.5	0.0931 mg/L	0.00011	0.0931 mg/L			0.00011	0.12%

000078

Magnesium, 7439-95-4†	74145.2	236.14 mg/L	0.833	236.14 mg/L	0.833	0.35%
Manganese, 7439-96-5†	832456.2	1.020 mg/L	0.0099	1.020 mg/L	0.0099	0.97%
Molybdenum, 7439-98-7†	588.0	0.0179 mg/L	0.00028	0.0179 mg/L	0.00028	1.56%
Nickel, 7440-02-0†	69.5	0.0010 mg/L	0.00019	0.0010 mg/L	0.00019	18.13%
Potassium, 7440-09-7†	261036.9	114.79 mg/L	1.836	114.79 mg/L	1.836	1.60%
Selenium, 7782-49-2†	8.6	0.0008 mg/L	0.00205	0.0008 mg/L	0.00205	251.64%
Silicon, 7440-21-3†	4158.5	4.4455 mg/L	0.04258	4.4455 mg/L	0.04258	0.96%
Silver, 7440-22-4†	602.7	0.0005 mg/L	0.00025	0.0005 mg/L	0.00025	49.25%
Sodium, 7440-23-5†	Saturated2					
Strontium, 7440-24-6†	759306.4	1.5928 mg/L	0.02046	1.5928 mg/L	0.02046	1.28%
Thallium, 7440-28-0†	41.3	0.0065 mg/L	0.00046	0.0065 mg/L	0.00046	7.10%
Tin, 7440-31-5†	-234.4	-0.0190 mg/L	0.00033	-0.0190 mg/L	0.00033	1.74%
Titanium, 7440-32-6†	110.7	0.0002 mg/L	0.00017	0.0002 mg/L	0.00017	106.60%
Vanadium, 7440-62-2†	-2305.9	-0.0095 mg/L	0.00111	-0.0095 mg/L	0.00111	11.76%
Zinc, 7440-66-6†	3801.4	0.0151 mg/L	0.00027	0.0151 mg/L	0.00027	1.79%
Zirconium, 7440-67-7†	-3587.4	-0.0059 mg/L	0.00019	-0.0059 mg/L	0.00019	3.19%

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Sequence No.: 37  
Sample ID: 20610122406 T  
Analyst:  
Logged In Analyst (Original) : met  
Initial Sample Wt:  
Dilution: 1X

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Autosampler Location: 38  
Date Collected: 10/13/2006 2:07:31 PM  
Data Type: Reprocessed on 10/16/2006 9:33:25 AM  
Initial Sample Vol:  
Sample Prep Vol:

## Mean Data: 20610122406 T

Analyte	Mean Corrected Intensity	Calib	Sample	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Ar 363.268 A	60085.9	85.976 %		0.1361				0.16%
Ar 420.067 R	1041148.5	85.544 %		0.2490				0.29%
Scandium-IS	3657151.1	128.16 %		1.759				1.37%
Yttrium, 7440-65-5A	1879054.5	123.89 %		1.766				1.43%
Yttrium, 7440-65-5R	117942.6	146.82 %		0.547				0.37%
Aluminum, 7429-90-5†	478.9	0.579 mg/L		0.0129	0.579	mg/L	0.0129	2.24%
Antimony, 7440-36-0†	-19.8	-0.0035 mg/L		0.00086	-0.0035	mg/L	0.00086	24.19%
Arsenic, 7440-38-2†	53.5	0.0183 mg/L		0.00268	0.0183	mg/L	0.00268	14.63%
Barium, 7440-39-3†	30899.6	0.1603 mg/L		0.00042	0.1603	mg/L	0.00042	0.26%
Beryllium, 7440-41-7†	-622.2	-0.0002 mg/L		0.00001	-0.0002	mg/L	0.00001	7.68%
Boron, 7440-42-8†	151187.9	2.4795 mg/L		0.01646	2.4795	mg/L	0.01646	0.66%
Cadmium, 7440-43-9†	-828.0	-0.0035 mg/L		0.00004	-0.0035	mg/L	0.00004	1.12%
Calcium, 7440-70-2†	233928.7	123.3 mg/L		0.28	123.3	mg/L	0.28	0.22%
Chromium, 7440-47-3†	1293.4	-0.0060 mg/L		0.00017	-0.0060	mg/L	0.00017	2.89%
Cobalt, 7440-48-4†	127.8	0.0024 mg/L		0.00022	0.0024	mg/L	0.00022	8.89%
Copper, 7440-50-8†	2365.8	-0.0004 mg/L		0.00029	-0.0004	mg/L	0.00029	71.38%
Iron, 7439-89-6†	3210.5	2.1344 mg/L		0.02318	2.1344	mg/L	0.02318	1.09%
Lead, 7439-92-1†	1.6	-0.0008 mg/L		0.00055	-0.0008	mg/L	0.00055	69.21%
Lithium, 7439-93-2†	5761.0	0.0931 mg/L		0.00014	0.0931	mg/L	0.00014	0.15%
Magnesium, 7439-95-4†	74129.2	236.09 mg/L		0.341	236.09	mg/L	0.341	0.14%
Manganese, 7439-96-5†	1038318.9	1.273 mg/L		0.0045	1.273	mg/L	0.0045	0.36%
Molybdenum, 7439-98-7†	598.3	0.0183 mg/L		0.00025	0.0183	mg/L	0.00025	1.37%
Nickel, 7440-02-0†	126.5	0.0019 mg/L		0.00010	0.0019	mg/L	0.00010	5.42%
Potassium, 7440-09-7†	265932.4	116.94 mg/L		0.333	116.94	mg/L	0.333	0.28%
Selenium, 7782-49-2†	2.4	-0.0015 mg/L		0.00284	-0.0015	mg/L	0.00284	183.79%
Silicon, 7440-21-3†	5399.6	5.8075 mg/L		0.04588	5.8075	mg/L	0.04588	0.79%
Silver, 7440-22-4†	297.3	0.0003 mg/L		0.00007	0.0003	mg/L	0.00007	21.56%
Sodium, 7440-23-5†	Saturated2							
Strontium, 7440-24-6†	769438.2	1.6140 mg/L		0.00262	1.6140	mg/L	0.00262	0.16%
Thallium, 7440-28-0†	32.5	0.0055 mg/L		0.00185	0.0055	mg/L	0.00185	33.57%
Tin, 7440-31-5†	-236.7	-0.0191 mg/L		0.00112	-0.0191	mg/L	0.00112	5.87%
Titanium, 7440-32-6†	4825.9	0.0083 mg/L		0.00029	0.0083	mg/L	0.00029	3.45%
Vanadium, 7440-62-2†	-1821.4	-0.0057 mg/L		0.00052	-0.0057	mg/L	0.00052	9.18%
Zinc, 7440-66-6†	11774.7	0.0557 mg/L		0.00064	0.0557	mg/L	0.00064	1.15%
Zirconium, 7440-67-7†	-3883.2	-0.0065 mg/L		0.00016	-0.0065	mg/L	0.00016	2.44%

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Sequence No.: 38  
Sample ID: 20610122407 D  
Analyst:  
Logged In Analyst (Original) : met  
Initial Sample Wt:

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Autosampler Location: 39  
Date Collected: 10/13/2006 2:14:01 PM  
Data Type: Reprocessed on 10/16/2006 9:33:27 AM  
Initial Sample Vol:

000079

Dilution: 1X

Sample Prep Vol:

Mean Data: 20610122407 D

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	62978.1	90.114 %	0.1259			0.14%
Ar 420.067 R	1071358.6	88.026 %	2.8019			3.18%
Scandium-IS	3410007.3	119.50 %	0.897			0.75%
Yttrium, 7440-65-5A	1756721.0	115.82 %	0.962			0.83%
Yttrium, 7440-65-5R	106985.2	133.18 %	10.623			7.98%
Aluminum, 7429-90-5†	-14.6	-0.016 mg/L	0.0101	-0.016 mg/L	0.0101	61.25%
Antimony, 7440-36-0†	-14.2	-0.0027 mg/L	0.00118	-0.0027 mg/L	0.00118	43.76%
Arsenic, 7440-38-2†	42.0	0.0143 mg/L	0.00232	0.0143 mg/L	0.00232	16.21%
Barium, 7440-39-3†	23557.0	0.1220 mg/L	0.00157	0.1220 mg/L	0.00157	1.29%
Beryllium, 7440-41-7†	-799.0	-0.0002 mg/L	0.00000	-0.0002 mg/L	0.00000	0.84%
Boron, 7440-42-8†	136604.6	2.2391 mg/L	0.00596	2.2391 mg/L	0.00596	0.27%
Cadmium, 7440-43-9†	-632.8	-0.0026 mg/L	0.00005	-0.0026 mg/L	0.00005	1.73%
Calcium, 7440-70-2†	223227.1	117.6 mg/L	4.26	117.6 mg/L	4.26	3.63%
Chromium, 7440-47-3†	992.5	-0.0074 mg/L	0.00025	-0.0074 mg/L	0.00025	3.38%
Cobalt, 7440-48-4†	106.4	0.0021 mg/L	0.00024	0.0021 mg/L	0.00024	11.46%
Copper, 7440-50-8†	1686.8	-0.0010 mg/L	0.00045	-0.0010 mg/L	0.00045	43.34%
Iron, 7439-89-6†	-18.5	-0.0120 mg/L	0.00339	-0.0120 mg/L	0.00339	28.27%
Lead, 7439-92-1†	-12.7	-0.0019 mg/L	0.00076	-0.0019 mg/L	0.00076	40.91%
Lithium, 7439-93-2†	5201.6	0.0841 mg/L	0.00122	0.0841 mg/L	0.00122	1.45%
Magnesium, 7439-95-4†	70020.8	223.00 mg/L	3.213	223.00 mg/L	3.213	1.44%
Manganese, 7439-96-5†	677408.2	0.830 mg/L	0.0052	0.830 mg/L	0.0052	0.63%
Molybdenum, 7439-98-7†	537.6	0.0164 mg/L	0.00011	0.0164 mg/L	0.00011	0.68%
Nickel, 7440-02-0†	66.2	0.0010 mg/L	0.00033	0.0010 mg/L	0.00033	32.08%
Potassium, 7440-09-7†	252191.2	110.90 mg/L	3.841	110.90 mg/L	3.841	3.46%
Selenium, 7782-49-2†	3.1	-0.0019 mg/L	0.00213	-0.0019 mg/L	0.00213	112.67%
Silicon, 7440-21-3†	3830.1	4.0918 mg/L	0.18676	4.0918 mg/L	0.18676	4.56%
Silver, 7440-22-4†	532.9	0.0003 mg/L	0.00022	0.0003 mg/L	0.00022	69.71%
Sodium, 7440-23-5†	Saturated2					
Strontium, 7440-24-6†	739866.4	1.5520 mg/L	0.05591	1.5520 mg/L	0.05591	3.60%
Thallium, 7440-28-0†	32.9	0.0051 mg/L	0.00086	0.0051 mg/L	0.00086	16.97%
Tin, 7440-31-5†	-247.8	-0.0205 mg/L	0.00057	-0.0205 mg/L	0.00057	2.76%
Titanium, 7440-32-6†	49.1	0.0001 mg/L	0.00002	0.0001 mg/L	0.00002	30.08%
Vanadium, 7440-62-2†	-2627.0	-0.0126 mg/L	0.00040	-0.0126 mg/L	0.00040	3.20%
Zinc, 7440-66-6†	8317.5	0.0385 mg/L	0.00080	0.0385 mg/L	0.00080	2.09%
Zirconium, 7440-67-7†	-4497.5	-0.0078 mg/L	0.00003	-0.0078 mg/L	0.00003	0.36%

Sequence No.: 39

Autosampler Location: 40

Sample ID: 20610122407 T

Date Collected: 10/13/2006 2:20:43 PM

Analyst:

Data Type: Reprocessed on 10/16/2006 9:33:28 AM

Logged In Analyst (Original) : met

Initial Sample Vol:

Initial Sample Wt:

Sample Prep Vol:

Dilution: 1X

Mean Data: 20610122407 T

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	60959.0	87.225 %	0.8700			1.00%
Ar 420.067 R	1074288.9	88.267 %	0.3728			0.42%
Scandium-IS	3643969.0	127.70 %	2.021			1.58%
Yttrium, 7440-65-5A	1884167.9	124.22 %	2.177			1.75%
Yttrium, 7440-65-5R	110064.2	137.01 %	3.199			2.33%
Aluminum, 7429-90-5†	2941.6	3.550 mg/L	0.1112	3.550 mg/L	0.1112	3.13%
Antimony, 7440-36-0†	-23.0	-0.0040 mg/L	0.00043	-0.0040 mg/L	0.00043	10.78%
Arsenic, 7440-38-2†	55.2	0.0198 mg/L	0.00172	0.0198 mg/L	0.00172	8.67%
Barium, 7440-39-3†	38720.1	0.2010 mg/L	0.00228	0.2010 mg/L	0.00228	1.13%
Beryllium, 7440-41-7†	1203.7	0.0002 mg/L	0.00001	0.0002 mg/L	0.00001	4.88%
Boron, 7440-42-8†	138059.0	2.2670 mg/L	0.01707	2.2670 mg/L	0.01707	0.75%
Cadmium, 7440-43-9†	-1231.6	-0.0054 mg/L	0.00004	-0.0054 mg/L	0.00004	0.80%
Calcium, 7440-70-2†	274390.3	144.6 mg/L	0.84	144.6 mg/L	0.84	0.58%
Chromium, 7440-47-3†	2210.7	0.0015 mg/L	0.00029	0.0015 mg/L	0.00029	19.03%
Cobalt, 7440-48-4†	317.3	0.0054 mg/L	0.00002	0.0054 mg/L	0.00002	0.42%
Copper, 7440-50-8†	34438.8	0.0817 mg/L	0.00079	0.0817 mg/L	0.00079	0.96%
Iron, 7439-89-6†	10556.4	7.0171 mg/L	0.21090	7.0171 mg/L	0.21090	3.01%

000080

Lead, 7439-92-1†	175.7	0.0147 mg/L	0.00086	0.0147 mg/L	0.00086	5.84%
Lithium, 7439-93-2†	5545.2	0.0897 mg/L	0.00262	0.0897 mg/L	0.00262	2.93%
Magnesium, 7439-95-4†	70321.2	223.96 mg/L	1.360	223.96 mg/L	1.360	0.61%
Manganese, 7439-96-5†	1082776.4	1.327 mg/L	0.0144	1.327 mg/L	0.0144	1.08%
Molybdenum, 7439-98-7†	340.8	0.0103 mg/L	0.00062	0.0103 mg/L	0.00062	5.98%
Nickel, 7440-02-0†	511.0	0.0084 mg/L	0.00036	0.0084 mg/L	0.00036	4.31%
Potassium, 7440-09-7†	245149.5	107.80 mg/L	0.946	107.80 mg/L	0.946	0.88%
Selenium, 7782-49-2†	-1.7	0.0001 mg/L	0.00344	0.0001 mg/L	0.00344	>999.9%
Silicon, 7440-21-3†	10349.8	11.246 mg/L	0.3098	11.246 mg/L	0.3098	2.75%
Silver, 7440-22-4†	-219.6	0.0004 mg/L	0.00036	0.0004 mg/L	0.00036	84.88%
Sodium, 7440-23-5†	8490458.5	1488.9 mg/L	22.00	1488.9 mg/L	22.00	1.48%
Strontium, 7440-24-6†	767869.6	1.6103 mg/L	0.01030	1.6103 mg/L	0.01030	0.64%
Thallium, 7440-28-0†	23.6	0.0045 mg/L	0.00258	0.0045 mg/L	0.00258	56.81%
Tin, 7440-31-5†	-231.0	-0.0181 mg/L	0.00093	-0.0181 mg/L	0.00093	5.13%
Titanium, 7440-32-6†	12115.9	0.0208 mg/L	0.00030	0.0208 mg/L	0.00030	1.46%
Vanadium, 7440-62-2†	-572.9	0.0035 mg/L	0.00042	0.0035 mg/L	0.00042	11.83%
Zinc, 7440-66-6†	144638.6	0.7369 mg/L	0.00837	0.7369 mg/L	0.00837	1.14%
Zirconium, 7440-67-7†	-3019.1	-0.0045 mg/L	0.00013	-0.0045 mg/L	0.00013	2.96%

Sequence No.: 40

Sample ID: 20610122408 D

Analyst:

Logged In Analyst (Original) : met

Initial Sample Wt:

Dilution: 1X

Autosampler Location: 41

Date Collected: 10/13/2006 2:26:57 PM

Data Type: Reprocessed on 10/16/2006 9:33:30 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 20610122408 D

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	58880.4	84.251 %	0.2859			0.34%
Ar 420.067 R	1029703.7	84.604 %	0.7522			0.89%
Scandium-IS	3699261.7	129.64 %	0.872			0.67%
Yttrium, 7440-65-5A	1897561.8	125.11 %	0.615			0.49%
Yttrium, 7440-65-5R	114783.0	142.89 %	0.660			0.46%
Aluminum, 7429-90-5†	-16.9	-0.019 mg/L	0.0082	-0.019 mg/L	0.0082	43.57%
Antimony, 7440-36-0†	-24.1	-0.0043 mg/L	0.00091	-0.0043 mg/L	0.00091	21.36%
Arsenic, 7440-38-2†	45.3	0.0157 mg/L	0.00126	0.0157 mg/L	0.00126	8.04%
Barium, 7440-39-3†	26535.6	0.1374 mg/L	0.00060	0.1374 mg/L	0.00060	0.44%
Beryllium, 7440-41-7†	-971.8	-0.0003 mg/L	0.00001	-0.0003 mg/L	0.00001	3.77%
Boron, 7440-42-8†	156114.2	2.5589 mg/L	0.00313	2.5589 mg/L	0.00313	0.12%
Cadmium, 7440-43-9†	-609.6	-0.0025 mg/L	0.00007	-0.0025 mg/L	0.00007	2.94%
Calcium, 7440-70-2†	290754.6	153.2 mg/L	0.34	153.2 mg/L	0.34	0.22%
Chromium, 7440-47-3†	1078.4	-0.0089 mg/L	0.00006	-0.0089 mg/L	0.00006	0.63%
Cobalt, 7440-48-4†	167.6	0.0033 mg/L	0.00025	0.0033 mg/L	0.00025	7.63%
Copper, 7440-50-8†	1801.8	-0.0013 mg/L	0.00011	-0.0013 mg/L	0.00011	8.80%
Iron, 7439-89-6†	-0.7	-0.0001 mg/L	0.00260	-0.0001 mg/L	0.00260	>999.9%
Lead, 7439-92-1†	-19.1	-0.0024 mg/L	0.00099	-0.0024 mg/L	0.00099	41.68%
Lithium, 7439-93-2†	6562.0	0.1060 mg/L	0.00113	0.1060 mg/L	0.00113	1.07%
Magnesium, 7439-95-4†	81154.7	258.46 mg/L	0.187	258.46 mg/L	0.187	0.07%
Manganese, 7439-96-5†	625432.3	0.766 mg/L	0.0022	0.766 mg/L	0.0022	0.29%
Molybdenum, 7439-98-7†	635.5	0.0193 mg/L	0.00023	0.0193 mg/L	0.00023	1.17%
Nickel, 7440-02-0†	110.5	0.0018 mg/L	0.00009	0.0018 mg/L	0.00009	4.94%
Potassium, 7440-09-7†	286317.2	125.90 mg/L	3.269	125.90 mg/L	3.269	2.60%
Selenium, 7782-49-2†	2.5	-0.0022 mg/L	0.00348	-0.0022 mg/L	0.00348	157.68%
Silicon, 7440-21-3†	2802.1	2.9460 mg/L	0.02096	2.9460 mg/L	0.02096	0.71%
Silver, 7440-22-4†	702.2	0.0006 mg/L	0.00009	0.0006 mg/L	0.00009	16.04%
Sodium, 7440-23-5†	Saturated2					
Strontium, 7440-24-6†	879279.8	1.8442 mg/L	0.03454	1.8442 mg/L	0.03454	1.87%
Thallium, 7440-28-0†	44.7	0.0067 mg/L	0.00227	0.0067 mg/L	0.00227	33.91%
Tin, 7440-31-5†	-250.9	-0.0196 mg/L	0.00017	-0.0196 mg/L	0.00017	0.86%
Titanium, 7440-32-6†	68.5	0.0001 mg/L	0.00008	0.0001 mg/L	0.00008	87.13%
Vanadium, 7440-62-2†	-2528.3	-0.0104 mg/L	0.00144	-0.0104 mg/L	0.00144	13.80%
Zinc, 7440-66-6†	2166.2	0.0063 mg/L	0.00038	0.0063 mg/L	0.00038	6.06%
Zirconium, 7440-67-7†	-4664.1	-0.0077 mg/L	0.00004	-0.0077 mg/L	0.00004	0.47%

Sequence No.: 41

Sample ID: 20610122408 T

Analyst:

Autosampler Location: 42

Date Collected: 10/13/2006 2:33:39 PM

Data Type: Reprocessed on 10/16/2006 9:33:32 AM

000081

Logged In Analyst (Original) : met  
 Initial Sample Wt:  
 Dilution: 1X

Initial Sample Vol:  
 Sample Prep Vol:

Mean Data: 20610122408 T

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	61330.9	87.757 %	0.2577			0.29%
Ar 420.067 R	1099096.3	90.305 %	0.2241			0.25%
Scandium-IS	3123367.5	109.45 %	0.649			0.59%
Yttrium, 7440-65-5A	1608093.1	106.02 %	0.528			0.50%
Yttrium, 7440-65-5R	91993.6	114.52 %	0.529			0.46%
Aluminum, 7429-90-5†	159.3	0.194 mg/L	0.0017	0.194 mg/L	0.0017	0.88%
Antimony, 7440-36-0†	-20.2	-0.0036 mg/L	0.00121	-0.0036 mg/L	0.00121	33.29%
Arsenic, 7440-38-2†	37.2	0.0138 mg/L	0.00108	0.0138 mg/L	0.00108	7.78%
Barium, 7440-39-3†	29154.6	0.1509 mg/L	0.00065	0.1509 mg/L	0.00065	0.43%
Beryllium, 7440-41-7†	-556.3	-0.0002 mg/L	0.00001	-0.0002 mg/L	0.00001	5.52%
Boron, 7440-42-8†	157151.1	2.5774 mg/L	0.02290	2.5774 mg/L	0.02290	0.89%
Cadmium, 7440-43-9†	-531.2	-0.0024 mg/L	0.00011	-0.0024 mg/L	0.00011	4.50%
Calcium, 7440-70-2†	296587.6	156.3 mg/L	0.49	156.3 mg/L	0.49	0.31%
Chromium, 7440-47-3†	1364.8	-0.0069 mg/L	0.00008	-0.0069 mg/L	0.00008	1.11%
Cobalt, 7440-48-4†	89.3	0.0017 mg/L	0.00030	0.0017 mg/L	0.00030	17.17%
Copper, 7440-50-8†	22982.9	0.0527 mg/L	0.00039	0.0527 mg/L	0.00039	0.74%
Iron, 7439-89-6†	4146.0	2.7562 mg/L	0.03948	2.7562 mg/L	0.03948	1.43%
Lead, 7439-92-1†	15.2	0.0002 mg/L	0.00052	0.0002 mg/L	0.00052	214.45%
Lithium, 7439-93-2†	6211.9	0.1004 mg/L	0.00085	0.1004 mg/L	0.00085	0.84%
Magnesium, 7439-95-4†	84844.9	270.22 mg/L	0.928	270.22 mg/L	0.928	0.34%
Manganese, 7439-96-5†	665794.5	0.816 mg/L	0.0034	0.816 mg/L	0.0034	0.42%
Molybdenum, 7439-98-7†	648.4	0.0197 mg/L	0.00021	0.0197 mg/L	0.00021	1.05%
Nickel, 7440-02-0†	157.8	0.0025 mg/L	0.00036	0.0025 mg/L	0.00036	14.33%
Potassium, 7440-09-7†	292423.4	128.59 mg/L	0.866	128.59 mg/L	0.866	0.67%
Selenium, 7782-49-2†	-8.7	-0.0072 mg/L	0.00234	-0.0072 mg/L	0.00234	32.56%
Silicon, 7440-21-3†	3486.5	3.6914 mg/L	0.03930	3.6914 mg/L	0.03930	1.06%
Silver, 7440-22-4†	346.0	0.0005 mg/L	0.00035	0.0005 mg/L	0.00035	77.38%
Sodium, 7440-23-5†	Saturated2					
Strontium, 7440-24-6†	905189.6	1.8986 mg/L	0.00847	1.8986 mg/L	0.00847	0.45%
Thallium, 7440-28-0†	40.7	0.0062 mg/L	0.00176	0.0062 mg/L	0.00176	28.45%
Tin, 7440-31-5†	-268.8	-0.0213 mg/L	0.00148	-0.0213 mg/L	0.00148	6.97%
Titanium, 7440-32-6†	2020.6	0.0035 mg/L	0.00063	0.0035 mg/L	0.00063	18.20%
Vanadium, 7440-62-2†	-2526.4	-0.0101 mg/L	0.00188	-0.0101 mg/L	0.00188	18.54%
Zinc, 7440-66-6†	19922.6	0.0968 mg/L	0.00070	0.0968 mg/L	0.00070	0.72%
Zirconium, 7440-67-7†	-5251.4	-0.0089 mg/L	0.00007	-0.0089 mg/L	0.00007	0.82%

Sequence No.: 42

Sample ID: 20610122409

Analyst:

Logged In Analyst (Original) : met

Initial Sample Wt:

Dilution: 1X

Autosampler Location: 43

Date Collected: 10/13/2006 2:40:08 PM

Data Type: Reprocessed on 10/16/2006 9:33:34 AM

Mean Data: 20610122409

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	70819.7	101.33 %	0.503			0.50%
Ar 420.067 R	1203884.1	98.915 %	0.2037			0.21%
Scandium-IS	3530558.7	123.72 %	1.269			1.03%
Yttrium, 7440-65-5A	1875755.3	123.67 %	1.418			1.15%
Yttrium, 7440-65-5R	100880.5	125.58 %	1.280			1.02%
Aluminum, 7429-90-5†	-5.5	-0.007 mg/L	0.0063	-0.007 mg/L	0.0063	94.99%
Antimony, 7440-36-0†	-22.3	-0.0035 mg/L	0.00083	-0.0035 mg/L	0.00083	23.99%
Arsenic, 7440-38-2†	29.5	0.0080 mg/L	0.00135	0.0080 mg/L	0.00135	16.89%
Barium, 7440-39-3†	15.8	0.0001 mg/L	0.00002	0.0001 mg/L	0.00002	26.79%
Beryllium, 7440-41-7†	-363.7	-0.0001 mg/L	0.00001	-0.0001 mg/L	0.00001	10.65%
Boron, 7440-42-8†	4489.5	0.0736 mg/L	0.00136	0.0736 mg/L	0.00136	1.84%
Cadmium, 7440-43-9†	-111.7	-0.0004 mg/L	0.00003	-0.0004 mg/L	0.00003	7.79%
Calcium, 7440-70-2†	441.2	0.233 mg/L	0.0064	0.233 mg/L	0.0064	2.74%
Chromium, 7440-47-3†	-422.2	-0.0025 mg/L	0.00009	-0.0025 mg/L	0.00009	3.67%
Cobalt, 7440-48-4†	42.8	0.0008 mg/L	0.00018	0.0008 mg/L	0.00018	23.84%

000082

Copper,7440-50-8†	-1307.3	-0.0033 mg/L	0.00036	-0.0033 mg/L	0.00036	10.79%
Iron,7439-89-6†	-54.1	-0.0360 mg/L	0.00143	-0.0360 mg/L	0.00143	3.98%
Lead,7439-92-1†	4.1	0.0004 mg/L	0.00097	0.0004 mg/L	0.00097	262.47%
Lithium,7439-93-2†	-113.4	-0.0018 mg/L	0.00059	-0.0018 mg/L	0.00059	32.47%
Magnesium,7439-95-4†	24.7	0.0788 mg/L	0.01729	0.0788 mg/L	0.01729	21.94%
Manganese,7439-96-5†	-544.3	-0.001 mg/L	0.00000	-0.001 mg/L	0.00000	2.29%
Molybdenum,7439-98-7†	8.9	0.0003 mg/L	0.00010	0.0003 mg/L	0.00010	35.58%
Nickel,7440-02-0†	-38.7	-0.0007 mg/L	0.00002	-0.0007 mg/L	0.00002	2.51%
Potassium,7440-09-7†	604.1	0.2657 mg/L	0.02150	0.2657 mg/L	0.02150	8.09%
Selenium,7782-49-2†	6.1	0.0035 mg/L	0.00308	0.0035 mg/L	0.00308	87.56%
Silicon,7440-21-3†	-16.1	-0.0177 mg/L	0.00399	-0.0177 mg/L	0.00399	22.49%
Silver,7440-22-4†	115.5	0.0003 mg/L	0.00016	0.0003 mg/L	0.00016	49.64%
Sodium,7440-23-5†	12674.0	2.2226 mg/L	0.12932	2.2226 mg/L	0.12932	5.82%
Strontium,7440-24-6†	-300.4	-0.0006 mg/L	0.00005	-0.0006 mg/L	0.00005	8.53%
Thallium,7440-28-0†	20.1	0.0030 mg/L	0.00073	0.0030 mg/L	0.00073	24.25%
Tin,7440-31-5†	-48.5	-0.0049 mg/L	0.00039	-0.0049 mg/L	0.00039	7.83%
Titanium,7440-32-6†	135.4	0.0002 mg/L	0.00005	0.0002 mg/L	0.00005	19.26%
Vanadium,7440-62-2†	-224.1	-0.0018 mg/L	0.00057	-0.0018 mg/L	0.00057	31.01%
Zinc,7440-66-6†	126.2	0.0007 mg/L	0.00012	0.0007 mg/L	0.00012	18.43%
Zirconium,7440-67-7†	-484.9	-0.0010 mg/L	0.00016	-0.0010 mg/L	0.00016	15.68%

Sequence No.: 43

Autosampler Location: 44

Sample ID: ---

Date Collected: 10/13/2006 2:46:57 PM

Analyst:

Data Type: Reprocessed on 10/16/2006 9:33:36 AM

Logged In Analyst (Original) : met

Initial Sample Vol:

Initial Sample Wt:

Sample Prep Vol:

Dilution: 1X

Mean Data: ---	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Analyte						
Ar 363.268 A	71307.8	102.03 %	0.636			0.62%
Ar 420.067 R	1201335.2	98.705 %	0.3274			0.33%
Scandium-IS	3493161.5	122.41 %	1.675			1.37%
Yttrium,7440-65-5A	1858575.3	122.54 %	1.453			1.19%
Yttrium,7440-65-5R	100331.5	124.90 %	2.739			2.19%
Aluminum,7429-90-5†	-25.7	-0.031 mg/L	0.0035	-0.031 mg/L	0.0035	11.41%
Antimony,7440-36-0†	-20.5	-0.0032 mg/L	0.00056	-0.0032 mg/L	0.00056	17.58%
Arsenic,7440-38-2†	21.5	0.0058 mg/L	0.00155	0.0058 mg/L	0.00155	26.71%
Barium,7440-39-3†	-6.2	0.00000 mg/L	0.00003	0.00000 mg/L	0.00003	97.49%
Beryllium,7440-41-7†	-349.9	-0.0001 mg/L	0.00001	-0.0001 mg/L	0.00001	18.62%
Boron,7440-42-8†	3576.5	0.0586 mg/L	0.00083	0.0586 mg/L	0.00083	1.42%
Cadmium,7440-43-9†	-101.4	-0.0004 mg/L	0.00003	-0.0004 mg/L	0.00003	8.61%
Calcium,7440-70-2†	-94.0	-0.050 mg/L	0.0036	-0.050 mg/L	0.0036	7.17%
Chromium,7440-47-3†	-305.1	-0.0018 mg/L	0.00002	-0.0018 mg/L	0.00002	1.28%
Cobalt,7440-48-4†	35.0	0.0006 mg/L	0.00023	0.0006 mg/L	0.00023	37.11%
Copper,7440-50-8†	-1194.6	-0.0031 mg/L	0.00040	-0.0031 mg/L	0.00040	12.97%
Iron,7439-89-6†	-48.6	-0.0323 mg/L	0.00092	-0.0323 mg/L	0.00092	2.86%
Lead,7439-92-1†	4.2	0.0004 mg/L	0.00066	0.0004 mg/L	0.00066	176.53%
Lithium,7439-93-2†	-117.4	-0.0019 mg/L	0.00044	-0.0019 mg/L	0.00044	23.69%
Magnesium,7439-95-4†	9.6	0.0307 mg/L	0.01506	0.0307 mg/L	0.01506	49.02%
Manganese,7439-96-5†	-328.2	0.000 mg/L	0.00000	0.000 mg/L	0.00000	8.95%
Molybdenum,7439-98-7†	-0.3	0.00000 mg/L	0.00023	0.00000 mg/L	0.00023	>999.9%
Nickel,7440-02-0†	-35.5	-0.0006 mg/L	0.00020	-0.0006 mg/L	0.00020	31.80%
Potassium,7440-09-7†	321.1	0.1412 mg/L	0.01918	0.1412 mg/L	0.01918	13.58%
Selenium,7782-49-2†	6.0	0.0034 mg/L	0.00236	0.0034 mg/L	0.00236	68.69%
Silicon,7440-21-3†	-19.1	-0.0210 mg/L	0.00208	-0.0210 mg/L	0.00208	9.88%
Silver,7440-22-4†	133.1	0.0004 mg/L	0.00009	0.0004 mg/L	0.00009	23.13%
Sodium,7440-23-5†	5887.3	1.0324 mg/L	0.05389	1.0324 mg/L	0.05389	5.22%
Strontium,7440-24-6†	55.1	0.0001 mg/L	0.00006	0.0001 mg/L	0.00006	51.77%
Thallium,7440-28-0†	10.9	0.0016 mg/L	0.00171	0.0016 mg/L	0.00171	103.92%
Tin,7440-31-5†	-44.3	-0.0045 mg/L	0.00065	-0.0045 mg/L	0.00065	14.41%
Titanium,7440-32-6†	181.9	0.0003 mg/L	0.00016	0.0003 mg/L	0.00016	51.27%
Vanadium,7440-62-2†	-229.2	-0.0019 mg/L	0.00048	-0.0019 mg/L	0.00048	25.68%
Zinc,7440-66-6†	-327.3	-0.0017 mg/L	0.00008	-0.0017 mg/L	0.00008	4.69%
Zirconium,7440-67-7†	-432.3	-0.0009 mg/L	0.00013	-0.0009 mg/L	0.00013	14.45%

Sequence No.: 44

Autosampler Location: 45

000083

Sample ID: ---

Date Collected: 10/13/2006 2:53:46 PM

Analyst:

Data Type: Reprocessed on 10/16/2006 9:33:37 AM

Logged In Analyst (Original) : met

Initial Sample Wt:

Initial Sample Vol:

Dilution: 1X

Sample Prep Vol:

Mean Data: ---

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	71032.8	101.64 %	0.178			0.18%
Ar 420.067 R	1199880.1	98.586 %	0.2479			0.25%
Scandium-IS	3498528.3	122.60 %	1.690			1.38%
Yttrium,7440-65-5A	1860753.6	122.68 %	1.618			1.32%
Yttrium,7440-65-5R	100831.1	125.52 %	0.049			0.04%
Aluminum,7429-90-5†	-19.2	-0.023 mg/L	0.0051	-0.023 mg/L	0.0051	21.98%
Antimony,7440-36-0†	-18.9	-0.0029 mg/L	0.00041	-0.0029 mg/L	0.00041	13.88%
Arsenic,7440-38-2†	22.9	0.0062 mg/L	0.00031	0.0062 mg/L	0.00031	5.11%
Barium,7440-39-3†	-11.7	-0.0001 mg/L	0.00001	-0.0001 mg/L	0.00001	19.07%
Beryllium,7440-41-7†	-342.5	-0.0001 mg/L	0.00001	-0.0001 mg/L	0.00001	16.67%
Boron,7440-42-8†	2934.0	0.0481 mg/L	0.00032	0.0481 mg/L	0.00032	0.67%
Cadmium,7440-43-9†	-97.0	-0.0004 mg/L	0.00002	-0.0004 mg/L	0.00002	6.47%
Calcium,7440-70-2†	-81.7	-0.043 mg/L	0.0065	-0.043 mg/L	0.0065	15.11%
Chromium,7440-47-3†	-291.5	-0.0017 mg/L	0.00026	-0.0017 mg/L	0.00026	15.09%
Cobalt,7440-48-4†	37.5	0.0007 mg/L	0.00041	0.0007 mg/L	0.00041	61.26%
Copper,7440-50-8†	-1368.9	-0.0035 mg/L	0.00063	-0.0035 mg/L	0.00063	18.02%
Iron,7439-89-6†	-45.6	-0.0303 mg/L	0.00113	-0.0303 mg/L	0.00113	3.74%
Lead,7439-92-1†	-1.1	-0.0001 mg/L	0.00051	-0.0001 mg/L	0.00051	586.03%
Lithium,7439-93-2†	-124.9	-0.0020 mg/L	0.00036	-0.0020 mg/L	0.00036	18.01%
Magnesium,7439-95-4†	7.2	0.0230 mg/L	0.01696	0.0230 mg/L	0.01696	73.84%
Manganese,7439-96-5†	-236.0	0.000 mg/L	0.0001	0.000 mg/L	0.0001	48.30%
Molybdenum,7439-98-7†	-4.9	-0.0002 mg/L	0.00032	-0.0002 mg/L	0.00032	211.59%
Nickel,7440-02-0†	-33.8	-0.0006 mg/L	0.00005	-0.0006 mg/L	0.00005	8.64%
Potassium,7440-09-7†	305.6	0.1344 mg/L	0.01222	0.1344 mg/L	0.01222	9.09%
Selenium,7782-49-2†	9.9	0.0057 mg/L	0.00314	0.0057 mg/L	0.00314	55.22%
Silicon,7440-21-3†	-19.8	-0.0217 mg/L	0.00241	-0.0217 mg/L	0.00241	11.08%
Silver,7440-22-4†	146.9	0.0004 mg/L	0.00021	0.0004 mg/L	0.00021	50.60%
Sodium,7440-23-5†	4729.3	0.8293 mg/L	0.00685	0.8293 mg/L	0.00685	0.83%
Strontium,7440-24-6†	74.0	0.0002 mg/L	0.00002	0.0002 mg/L	0.00002	14.07%
Thallium,7440-28-0†	12.0	0.0018 mg/L	0.00074	0.0018 mg/L	0.00074	41.08%
Tin,7440-31-5†	-42.2	-0.0043 mg/L	0.00009	-0.0043 mg/L	0.00009	2.01%
Titanium,7440-32-6†	192.6	0.0003 mg/L	0.00017	0.0003 mg/L	0.00017	49.67%
Vanadium,7440-62-2†	-227.7	-0.0019 mg/L	0.00080	-0.0019 mg/L	0.00080	42.94%
Zinc,7440-66-6†	-236.4	-0.0012 mg/L	0.00030	-0.0012 mg/L	0.00030	25.33%
Zirconium,7440-67-7†	-431.7	-0.0009 mg/L	0.00010	-0.0009 mg/L	0.00010	11.63%

Sequence No.: 45

Autosampler Location: 46

Sample ID: 163-19-1

Date Collected: 10/13/2006 3:00:33 PM

Analyst:

Data Type: Reprocessed on 10/16/2006 9:33:38 AM

Logged In Analyst (Original) : met

Initial Sample Vol:

Initial Sample Wt:

Sample Prep Vol:

CXB 10.16.06

Mean Data: 163-19-1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	71053.9	101.67 %	0.061			0.06%
Ar 420.067 R	1199628.2	98.565 %	0.3860			0.39%
Scandium-IS	3437348.4	120.46 %	1.089			0.90%
Yttrium,7440-65-5A	1830693.1	120.70 %	1.082			0.90%
Yttrium,7440-65-5R	100220.5	124.76 %	1.755			1.41%
Aluminum,7429-90-5†	-18.8	-0.023 mg/L	0.0034	-0.023 mg/L	0.0034	15.13%
Antimony,7440-36-0†	-19.1	-0.0030 mg/L	0.00081	-0.0030 mg/L	0.00081	26.76%
Arsenic,7440-38-2†	19.3	0.0052 mg/L	0.00152	0.0052 mg/L	0.00152	29.16%
Barium,7440-39-3†	945.5	0.0049 mg/L	0.00011	0.0049 mg/L	0.00011	2.24%
Beryllium,7440-41-7†	-339.7	-0.0001 mg/L	0.00002	-0.0001 mg/L	0.00002	20.02%
Boron,7440-42-8†	2600.2	0.0427 mg/L	0.00118	0.0427 mg/L	0.00118	2.77%
Cadmium,7440-43-9†	162.9	0.0006 mg/L	0.00004	0.0006 mg/L	0.00004	6.55%
Calcium,7440-70-2†	51.2	0.027 mg/L	0.0049	0.027 mg/L	0.0049	18.19%

000084

Chromium, 7440-47-3†	571.8	0.0033 mg/L	0.00020	0.0033 mg/L	0.00020	6.08%
Cobalt, 7440-48-4†	92.3	0.0016 mg/L	0.00008	0.0016 mg/L	0.00008	5.19%
Copper, 7440-50-8†	943.1	0.0024 mg/L	0.00016	0.0024 mg/L	0.00016	6.84%
Iron, 7439-89-6†	30.2	0.0201 mg/L	0.00046	0.0201 mg/L	0.00046	2.28%
Lead, 7439-92-1†	44.4	0.0039 mg/L	0.00030	0.0039 mg/L	0.00030	7.71%
Lithium, 7439-93-2†	-118.5	-0.0019 mg/L	0.00026	-0.0019 mg/L	0.00026	13.70%
Magnesium, 7439-95-4†	4.6	0.0145 mg/L	0.00368	0.0145 mg/L	0.00368	25.33%
Manganese, 7439-96-5†	1318.2	0.002 mg/L	0.00000	0.002 mg/L	0.00000	2.27%
Molybdenum, 7439-98-7†	10.8	0.0003 mg/L	0.00026	0.0003 mg/L	0.00026	78.38%
Nickel, 7440-02-0†	262.8	0.0046 mg/L	0.00021	0.0046 mg/L	0.00021	4.70%
Potassium, 7440-09-7†	249.1	0.1095 mg/L	0.01130	0.1095 mg/L	0.01130	10.32%
Selenium, 7782-49-2†	58.9	0.0340 mg/L	0.00157	0.0340 mg/L	0.00157	4.62%
Silicon, 7440-21-3†	-18.4	-0.0202 mg/L	0.00385	-0.0202 mg/L	0.00385	19.10%
Silver, 7440-22-4†	111.6	0.0003 mg/L	0.00015	0.0003 mg/L	0.00015	45.89%
Sodium, 7440-23-5†	3970.8	0.6963 mg/L	0.00739	0.6963 mg/L	0.00739	1.06%
Strontium, 7440-24-6†	177.4	0.0004 mg/L	0.00006	0.0004 mg/L	0.00006	16.59%
Thallium, 7440-28-0†	15.2	0.0023 mg/L	0.00098	0.0023 mg/L	0.00098	43.12%
Tin, 7440-31-5†	-33.6	-0.0034 mg/L	0.00048	-0.0034 mg/L	0.00048	14.12%
Titanium, 7440-32-6†	118.7	0.0002 mg/L	0.00008	0.0002 mg/L	0.00008	40.43%
Vanadium, 7440-62-2†	-165.3	-0.0013 mg/L	0.00079	-0.0013 mg/L	0.00079	58.22%
Zinc, 7440-66-6†	2291.9	0.0117 mg/L	0.00012	0.0117 mg/L	0.00012	0.98%
Zirconium, 7440-67-7†	-430.0	-0.0009 mg/L	0.00010	-0.0009 mg/L	0.00010	11.42%

Sequence No.: 46

Autosampler Location: 7

Sample ID: 1800

Date Collected: 10/13/2006 3:07:23 PM

Analyst:

Data Type: Reprocessed on 10/16/2006 9:33:40 AM

Logged In Analyst (Original) : met

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Mean Data: 1800

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	70641.9	101.08 %	0.437			0.43%
Ar 420.067 R	1197875.3	98.421 %	0.1463			0.15%
Scandium-IS	3469441.0	121.58 %	1.139			0.94%
Yttrium, 7440-65-5A	1829642.9	120.63 %	1.008			0.84%
Yttrium, 7440-65-5R	101192.2	125.97 %	0.135			0.11%
Aluminum, 7429-90-5†	4112.5	4.965 mg/L	0.0066	4.965 mg/L	0.0066	0.13%
QC value within limits for Aluminum, 7429-90-5		Recovery = 99.30%				
Antimony, 7440-36-0†	3274.7	0.5063 mg/L	0.00418	0.5063 mg/L	0.00418	0.83%
QC value within limits for Antimony, 7440-36-0		Recovery = 101.25%				
Arsenic, 7440-38-2†	1973.8	0.5511 mg/L	0.00693	0.5511 mg/L	0.00693	1.26%
QC value greater than the upper limit for Arsenic, 7440-38-2		Recovery = 110.22%				
Barium, 7440-39-3†	99662.1	0.5202 mg/L	0.00562	0.5202 mg/L	0.00562	1.08%
QC value within limits for Barium, 7440-39-3		Recovery = 104.05%				
Beryllium, 7440-41-7†	2256275.2	0.5208 mg/L	0.00118	0.5208 mg/L	0.00118	0.23%
QC value within limits for Beryllium, 7440-41-7		Recovery = 104.16%				
Boron, 7440-42-8†	158172.9	2.5969 mg/L	0.01585	2.5969 mg/L	0.01585	0.61%
QC value within limits for Boron, 7440-42-8		Recovery = 103.88%				
Cadmium, 7440-43-9†	131720.4	0.5224 mg/L	0.00635	0.5224 mg/L	0.00635	1.22%
QC value within limits for Cadmium, 7440-43-9		Recovery = 104.49%				
Calcium, 7440-70-2†	9980.9	5.258 mg/L	0.0179	5.258 mg/L	0.0179	0.34%
QC value within limits for Calcium, 7440-70-2		Recovery = 105.16%				
Chromium, 7440-47-3†	89956.1	0.5201 mg/L	0.00569	0.5201 mg/L	0.00569	1.09%
QC value within limits for Chromium, 7440-47-3		Recovery = 104.02%				
Cobalt, 7440-48-4†	29877.7	0.5226 mg/L	0.00490	0.5226 mg/L	0.00490	0.94%
QC value within limits for Cobalt, 7440-48-4		Recovery = 104.51%				
Copper, 7440-50-8†	198301.0	0.5068 mg/L	0.00347	0.5068 mg/L	0.00347	0.68%
QC value within limits for Copper, 7440-50-8		Recovery = 101.35%				
Iron, 7439-89-6†	7749.3	5.1498 mg/L	0.01708	5.1498 mg/L	0.01708	0.33%
QC value within limits for Iron, 7439-89-6		Recovery = 103.00%				
Lead, 7439-92-1†	5980.6	0.5229 mg/L	0.00506	0.5229 mg/L	0.00506	0.97%
QC value within limits for Lead, 7439-92-1		Recovery = 104.58%				
Lithium, 7439-93-2†	31053.2	0.4966 mg/L	0.00113	0.4966 mg/L	0.00113	0.23%
QC value within limits for Lithium, 7439-93-2		Recovery = 99.32%				
Magnesium, 7439-95-4†	1612.5	5.1373 mg/L	0.02490	5.1373 mg/L	0.02490	0.48%
QC value within limits for Magnesium, 7439-95-4		Recovery = 102.75%				
Manganese, 7439-96-5†	426300.6	0.522 mg/L	0.0054	0.522 mg/L	0.0054	1.03%

000085

QC value within limits for Manganese, 7439-96-5 Recovery = 104.45%  
Molybdenum, 7439-98-7† 16556.0 0.5113 mg/L 0.00410 0.5113 mg/L 0.00410 0.80%  
QC value within limits for Molybdenum, 7439-98-7 Recovery = 102.26%  
Nickel, 7440-02-0† 30006.2 0.5207 mg/L 0.00668 0.5207 mg/L 0.00668 1.28%  
QC value within limits for Nickel, 7440-02-0 Recovery = 104.14%  
Potassium, 7440-09-7† 22798.4 10.023 mg/L 0.0436 10.023 mg/L 0.0436 0.44%  
QC value within limits for Potassium, 7440-09-7 Recovery = 100.23%  
Selenium, 7782-49-2† 903.1 0.5236 mg/L 0.00399 0.5236 mg/L 0.00399 0.76%  
QC value within limits for Selenium, 7782-49-2 Recovery = 104.72%  
Silicon, 7440-21-3† 442.5 0.4829 mg/L 0.00380 0.4829 mg/L 0.00380 0.79%  
QC value within limits for Silicon, 7440-21-3 Recovery = 96.59%  
Silver, 7440-22-4† 163311.2 0.5182 mg/L 0.00435 0.5182 mg/L 0.00435 0.84%  
QC value within limits for Silver, 7440-22-4 Recovery = 103.64%  
Sodium, 7440-23-5† 114986.4 20.162 mg/L 0.0265 20.162 mg/L 0.0265 0.13%  
QC value within limits for Sodium, 7440-23-5 Recovery = 100.81%  
Strontium, 7440-24-6† 240847.6 0.5059 mg/L 0.00823 0.5059 mg/L 0.00823 1.63%  
QC value within limits for Strontium, 7440-24-6 Recovery = 101.17%  
Thallium, 7440-28-0† 3470.5 0.5249 mg/L 0.00525 0.5249 mg/L 0.00525 1.00%  
QC value within limits for Thallium, 7440-28-0 Recovery = 104.98%  
Tin, 7440-31-5† 5136.2 0.5228 mg/L 0.00393 0.5228 mg/L 0.00393 0.75%  
QC value within limits for Tin, 7440-31-5 Recovery = 104.56%  
Titanium, 7440-32-6† 301064.7 0.5196 mg/L 0.00108 0.5196 mg/L 0.00108 0.21%  
QC value within limits for Titanium, 7440-32-6 Recovery = 103.93%  
Vanadium, 7440-62-2† 63823.8 0.5202 mg/L 0.00466 0.5202 mg/L 0.00466 0.90%  
QC value within limits for Vanadium, 7440-62-2 Recovery = 104.05%  
Zinc, 7440-66-6† 101312.2 0.5153 mg/L 0.00527 0.5153 mg/L 0.00527 1.02%  
QC value within limits for Zinc, 7440-66-6 Recovery = 103.07%  
Zirconium, 7440-67-7† 250151.8 0.5111 mg/L 0.00451 0.5111 mg/L 0.00451 0.88%  
QC value within limits for Zirconium, 7440-67-7 Recovery = 102.22%  
QC Failed. Continue with analysis.

Sequence No.: 47

Autosampler Location: 1

Sample ID: 1900

Date Collected: 10/13/2006 3:16:47 PM

Analyst:

Data Type: Reprocessed on 10/16/2006 9:33:42 AM

Logged In Analyst (Original) : met

Initial Sample Vol:

Initial Sample Wt:

Sample Prep Vol:

Dilution:

## Mean Data: 1900

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	70998.8	101.59 %	0.315	-	-	0.31%
Ar 420.067 R	1204657.6	98.978 %	0.1468	-	-	0.15%
Scandium-IS	3385177.4	118.63 %	0.310	-	-	0.26%
Yttrium, 7440-65-5A	1802424.8	118.84 %	0.319	-	-	0.27%
Yttrium, 7440-65-5R	97595.9	121.49 %	1.157	-	-	0.95%
Aluminum, 7429-90-5†	-21.0	-0.025 mg/L	0.0030	-0.025 mg/L	0.0030	11.96%
QC value within limits for Aluminum, 7429-90-5		Recovery = Not calculated				
Antimony, 7440-36-0†	-10.3	-0.0016 mg/L	0.00179	-0.0016 mg/L	0.00179	112.09%
QC value within limits for Antimony, 7440-36-0		Recovery = Not calculated				
Arsenic, 7440-38-2†	13.5	0.0036 mg/L	0.00020	0.0036 mg/L	0.00020	5.48%
QC value within limits for Arsenic, 7440-38-2		Recovery = Not calculated				
Barium, 7440-39-3†	-12.1	-0.0001 mg/L	0.00010	-0.0001 mg/L	0.00010	168.17%
QC value within limits for Barium, 7440-39-3		Recovery = Not calculated				
Beryllium, 7440-41-7†	-136.9	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002	53.52%
QC value within limits for Beryllium, 7440-41-7		Recovery = Not calculated				
Boron, 7440-42-8†	3221.2	0.0528 mg/L	0.00177	0.0528 mg/L	0.00177	3.35%
QC value within limits for Boron, 7440-42-8		Recovery = Not calculated				
Cadmium, 7440-43-9†	-56.0	-0.0002 mg/L	0.00004	-0.0002 mg/L	0.00004	17.08%
QC value within limits for Cadmium, 7440-43-9		Recovery = Not calculated				
Calcium, 7440-70-2†	-54.7	-0.029 mg/L	0.0036	-0.029 mg/L	0.0036	12.42%
QC value within limits for Calcium, 7440-70-2		Recovery = Not calculated				
Chromium, 7440-47-3†	-259.7	-0.0015 mg/L	0.00014	-0.0015 mg/L	0.00014	9.33%
QC value within limits for Chromium, 7440-47-3		Recovery = Not calculated				
Cobalt, 7440-48-4†	35.0	0.0006 mg/L	0.00014	0.0006 mg/L	0.00014	22.12%
QC value within limits for Cobalt, 7440-48-4		Recovery = Not calculated				
Copper, 7440-50-8†	-774.1	-0.0020 mg/L	0.00037	-0.0020 mg/L	0.00037	18.85%
QC value within limits for Copper, 7440-50-8		Recovery = Not calculated				
Iron, 7439-89-6†	-37.4	-0.0249 mg/L	0.00189	-0.0249 mg/L	0.00189	7.59%

000086

QC value within limits for Iron, 7439-89-6 Recovery = Not calculated  
 Lead, 7439-92-1† 3.9 0.0003 mg/L 0.00104 0.0003 mg/L 0.00104 304.43%  
 QC value within limits for Lead, 7439-92-1 Recovery = Not calculated  
 Lithium, 7439-93-2† -117.2 -0.0019 mg/L 0.00065 -0.0019 mg/L 0.00065 34.47%  
 QC value within limits for Lithium, 7439-93-2 Recovery = Not calculated  
 Magnesium, 7439-95-4† 2.8 0.0090 mg/L 0.00214 0.0090 mg/L 0.00214 23.73%  
 QC value within limits for Magnesium, 7439-95-4 Recovery = Not calculated  
 Manganese, 7439-96-5† -252.5 0.0000 mg/L 0.0000 0.0000 mg/L 0.0000 5.50%  
 QC value within limits for Manganese, 7439-96-5 Recovery = Not calculated  
 Molybdenum, 7439-98-7† 4.6 0.0001 mg/L 0.00023 0.0001 mg/L 0.00023 158.96%  
 QC value within limits for Molybdenum, 7439-98-7 Recovery = Not calculated  
 Nickel, 7440-02-0† -21.2 -0.0004 mg/L 0.00024 -0.0004 mg/L 0.00024 66.15%  
 QC value within limits for Nickel, 7440-02-0 Recovery = Not calculated  
 Potassium, 7440-09-7† 161.5 0.0710 mg/L 0.01489 0.0710 mg/L 0.01489 20.96%  
 QC value within limits for Potassium, 7440-09-7 Recovery = Not calculated  
 Selenium, 7782-49-2† 11.2 0.0064 mg/L 0.00174 0.0064 mg/L 0.00174 27.09%  
 QC value within limits for Selenium, 7782-49-2 Recovery = Not calculated  
 Silicon, 7440-21-3† -15.4 -0.0169 mg/L 0.00150 -0.0169 mg/L 0.00150 8.88%  
 QC value within limits for Silicon, 7440-21-3 Recovery = Not calculated  
 Silver, 7440-22-4† 179.8 0.0005 mg/L 0.00025 0.0005 mg/L 0.00025 46.12%  
 QC value within limits for Silver, 7440-22-4 Recovery = Not calculated  
 Sodium, 7440-23-5† 2644.3 0.4637 mg/L 0.02136 0.4637 mg/L 0.02136 4.61%  
 QC value within limits for Sodium, 7440-23-5 Recovery = Not calculated  
 Strontium, 7440-24-6† 83.9 0.0002 mg/L 0.00007 0.0002 mg/L 0.00007 41.76%  
 QC value within limits for Strontium, 7440-24-6 Recovery = Not calculated  
 Thallium, 7440-28-0† 16.6 0.0025 mg/L 0.00191 0.0025 mg/L 0.00191 76.66%  
 QC value within limits for Thallium, 7440-28-0 Recovery = Not calculated  
 Tin, 7440-31-5† -28.2 -0.0029 mg/L 0.00026 -0.0029 mg/L 0.00026 9.17%  
 QC value within limits for Tin, 7440-31-5 Recovery = Not calculated  
 Titanium, 7440-32-6† 195.8 0.0003 mg/L 0.00015 0.0003 mg/L 0.00015 43.78%  
 QC value within limits for Titanium, 7440-32-6 Recovery = Not calculated  
 Vanadium, 7440-62-2† -147.5 -0.0012 mg/L 0.00018 -0.0012 mg/L 0.00018 15.01%  
 QC value within limits for Vanadium, 7440-62-2 Recovery = Not calculated  
 Zinc, 7440-66-6† -50.9 -0.0003 mg/L 0.00004 -0.0003 mg/L 0.00004 14.24%  
 QC value within limits for Zinc, 7440-66-6 Recovery = Not calculated  
 Zirconium, 7440-67-7† 95.3 0.0002 mg/L 0.00007 0.0002 mg/L 0.00007 36.48%  
 QC value within limits for Zirconium, 7440-67-7 Recovery = Not calculated  
 All analyte(s) passed QC.

Sequence No.: 48

Autosampler Location: 47

Sample ID: 417436

Date Collected: 10/13/2006 3:23:34 PM

Analyst:

Data Type: Reprocessed on 10/16/2006 9:33:44 AM

Logged In Analyst (Original) : met

Initial Sample Vol:

Initial Sample Wt:

Sample Prep Vol:

Dilution: 1X

Mean Data: 417436

Analyte	Mean Corrected		Calib		Std.Dev.	Sample		RSD
	Intensity	Conc.	Units	Conc.		Std.Dev.	Conc.	
Ar 363.268 A	71469.0	102.26	%	0.221			0.0080	0.22%
Ar 420.067 R	1209420.2	99.370	%	0.2904			0.00114	0.29%
Scandium-IS	3487851.3	122.23	%	0.759			0.00018	0.62%
Yttrium, 7440-65-5A	1852606.2	122.14	%	0.695			0.00002	0.57%
Yttrium, 7440-65-5R	98944.8	123.17	%	0.852			0.00004	0.69%
Aluminum, 7429-90-5†	-20.1	-0.024	mg/L	0.0080	-0.024	mg/L	0.00080	33.21%
Antimony, 7440-36-0†	-24.0	-0.0037	mg/L	0.00114	-0.0037	mg/L	0.000114	30.40%
Arsenic, 7440-38-2†	19.1	0.0052	mg/L	0.00113	0.0052	mg/L	0.00013	21.96%
Barium, 7440-39-3†	-23.7	-0.0001	mg/L	0.00010	-0.0001	mg/L	0.000010	82.18%
Beryllium, 7440-41-7†	-289.8	-0.0001	mg/L	0.00002	-0.0001	mg/L	0.000002	25.48%
Boron, 7440-42-8†	2435.8	0.0399	mg/L	0.00050	0.0399	mg/L	0.000050	1.26%
Cadmium, 7440-43-9†	-86.4	-0.0003	mg/L	0.00001	-0.0003	mg/L	0.000001	3.00%
Calcium, 7440-70-2†	-171.6	-0.090	mg/L	0.0178	-0.090	mg/L	0.00178	19.69%
Chromium, 7440-47-3†	-410.1	-0.0024	mg/L	0.00005	-0.0024	mg/L	0.000005	1.95%
Cobalt, 7440-48-4†	33.4	0.0006	mg/L	0.00012	0.0006	mg/L	0.000012	20.55%
Copper, 7440-50-8†	-1074.0	-0.0028	mg/L	0.00007	-0.0028	mg/L	0.000007	2.66%
Iron, 7439-89-6†	-57.8	-0.0384	mg/L	0.00426	-0.0384	mg/L	0.00426	11.09%
Lead, 7439-92-1†	16.9	0.0015	mg/L	0.00047	0.0015	mg/L	0.00047	31.59%
Lithium, 7439-93-2†	-148.9	-0.0024	mg/L	0.00075	-0.0024	mg/L	0.00075	31.56%
Magnesium, 7439-95-4†	7.2	0.0229	mg/L	0.01094	0.0229	mg/L	0.01094	47.83%

000087

Manganese, 7439-96-5†	-359.6	0.000 mg/L	0.0001	0.000 mg/L	0.0001	17.49%
Molybdenum, 7439-98-7†	-2.7	-0.0001 mg/L	0.00011	-0.0001 mg/L	0.00011	140.27%
Nickel, 7440-02-0†	-60.4	-0.0010 mg/L	0.00031	-0.0010 mg/L	0.00031	29.29%
Potassium, 7440-09-7†	243.0	0.1069 mg/L	0.00412	0.1069 mg/L	0.00412	3.86%
Selenium, 7782-49-2†	8.5	0.0049 mg/L	0.00429	0.0049 mg/L	0.00429	88.45%
Silicon, 7440-21-3†	-18.7	-0.0205 mg/L	0.00151	-0.0205 mg/L	0.00151	7.36%
Silver, 7440-22-4†	155.3	0.0005 mg/L	0.00003	0.0005 mg/L	0.00003	5.75%
Sodium, 7440-23-5†	3154.9	0.5533 mg/L	0.00900	0.5533 mg/L	0.00900	1.63%
Strontium, 7440-24-6†	-427.6	-0.0009 mg/L	0.00002	-0.0009 mg/L	0.00002	2.14%
Thallium, 7440-28-0†	14.7	0.0022 mg/L	0.00035	0.0022 mg/L	0.00035	16.02%
Tin, 7440-31-5†	-39.5	-0.0040 mg/L	0.00022	-0.0040 mg/L	0.00022	5.46%
Titanium, 7440-32-6†	99.7	0.0002 mg/L	0.00025	0.0002 mg/L	0.00025	146.67%
Vanadium, 7440-62-2†	-117.6	-0.0010 mg/L	0.00032	-0.0010 mg/L	0.00032	33.07%
Zinc, 7440-66-6†	-6.2	0.0000 mg/L	0.00087	0.0000 mg/L	0.00087	>999.9%
Zirconium, 7440-67-7†	-363.8	-0.0007 mg/L	0.00013	-0.0007 mg/L	0.00013	17.93%

=====

Sequence No.: 49

Sample ID: 417437

Analyst:

Logged In Analyst (Original) : met

Initial Sample Wt:

Dilution: 1X

Autosampler Location: 48

Date Collected: 10/13/2006 3:30:25 PM

Data Type: Reprocessed on 10/16/2006 9:33:46 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 417437

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	71421.3	102.20 %	0.117			0.11%
Ar 420.067 R	1207985.1	99.252 %	0.2090			0.21%
Scandium-IS	3455288.6	121.09 %	0.723			0.60%
Yttrium, 7440-65-5A	1825785.2	120.38 %	0.673			0.56%
Yttrium, 7440-65-5R	98854.1	123.06 %	0.758			0.62%
Aluminum, 7429-90-5†	4183.8	5.051 mg/L	0.0242	5.051 mg/L	0.0242	0.48%
Antimony, 7440-36-0†	3284.7	0.5078 mg/L	0.00073	0.5078 mg/L	0.00073	0.14%
Arsenic, 7440-38-2†	1943.6	0.5429 mg/L	0.00393	0.5429 mg/L	0.00393	0.72%
Barium, 7440-39-3†	99814.2	0.5210 mg/L	0.00189	0.5210 mg/L	0.00189	0.36%
Beryllium, 7440-41-7†	2219301.2	0.5123 mg/L	0.00032	0.5123 mg/L	0.00032	0.06%
Boron, 7440-42-8†	157048.2	2.5785 mg/L	0.01066	2.5785 mg/L	0.01066	0.41%
Cadmium, 7440-43-9†	131793.7	0.5227 mg/L	0.00180	0.5227 mg/L	0.00180	0.34%
Calcium, 7440-70-2†	9912.7	5.222 mg/L	0.0307	5.222 mg/L	0.0307	0.59%
Chromium, 7440-47-3†	90051.7	0.5207 mg/L	0.00159	0.5207 mg/L	0.00159	0.30%
Cobalt, 7440-48-4†	29953.6	0.5239 mg/L	0.00133	0.5239 mg/L	0.00133	0.25%
Copper, 7440-50-8†	196914.4	0.5032 mg/L	0.00137	0.5032 mg/L	0.00137	0.27%
Iron, 7439-89-6†	7826.1	5.2008 mg/L	0.01268	5.2008 mg/L	0.01268	0.24%
Lead, 7439-92-1†	5978.0	0.5227 mg/L	0.00096	0.5227 mg/L	0.00096	0.18%
Lithium, 7439-93-2†	30953.4	0.4950 mg/L	0.00275	0.4950 mg/L	0.00275	0.56%
Magnesium, 7439-95-4†	1644.3	5.2387 mg/L	0.02783	5.2387 mg/L	0.02783	0.53%
Manganese, 7439-96-5†	425980.3	0.522 mg/L	0.0014	0.522 mg/L	0.0014	0.26%
Molybdenum, 7439-98-7†	16514.2	0.5100 mg/L	0.00096	0.5100 mg/L	0.00096	0.19%
Nickel, 7440-02-0†	30140.0	0.5230 mg/L	0.00145	0.5230 mg/L	0.00145	0.28%
Potassium, 7440-09-7†	22916.8	10.076 mg/L	0.0335	10.076 mg/L	0.0335	0.33%
Selenium, 7782-49-2†	904.0	0.5241 mg/L	0.00469	0.5241 mg/L	0.00469	0.90%
Silicon, 7440-21-3†	436.0	0.4758 mg/L	0.00391	0.4758 mg/L	0.00391	0.82%
Silver, 7440-22-4†	161410.4	0.5123 mg/L	0.00058	0.5123 mg/L	0.00058	0.11%
Sodium, 7440-23-5†	115476.2	20.248 mg/L	0.1149	20.248 mg/L	0.1149	0.57%
Strontium, 7440-24-6†	243212.3	0.5108 mg/L	0.00657	0.5108 mg/L	0.00657	1.29%
Thallium, 7440-28-0†	3479.2	0.5262 mg/L	0.00132	0.5262 mg/L	0.00132	0.25%
Tin, 7440-31-5†	5263.2	0.5357 mg/L	0.00149	0.5357 mg/L	0.00149	0.28%
Titanium, 7440-32-6†	300728.9	0.5190 mg/L	0.00025	0.5190 mg/L	0.00025	0.05%
Vanadium, 7440-62-2†	63927.1	0.5211 mg/L	0.00127	0.5211 mg/L	0.00127	0.24%
Zinc, 7440-66-6†	99545.1	0.5063 mg/L	0.00165	0.5063 mg/L	0.00165	0.33%
Zirconium, 7440-67-7†	1009.7	0.0015 mg/L	0.00061	0.0015 mg/L	0.00061	40.91%

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Sequence No.: 50

Sample ID: 20610116801

Analyst:

Logged In Analyst (Original) : met

Initial Sample Wt:

Dilution: 1X

Autosampler Location: 49

Date Collected: 10/13/2006 3:37:20 PM

Data Type: Reprocessed on 10/16/2006 9:33:47 AM

Initial Sample Vol:

Sample Prep Vol:

000088

Mean Data: 20610116801

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc. Units			Conc. Units	Std.Dev.		
Ar 363.268 A	58118.5	83.161 %	0.2282				0.0360	0.27%
Ar 420.067 R	1064629.8	87.473 %	0.9086					1.04%
Scandium-IS	3087961.0	108.21 %	2.012					1.86%
Yttrium, 7440-65-5A	1586838.2	104.62 %	1.966					1.88%
Yttrium, 7440-65-5R	91080.1	113.38 %	2.698					2.38%
Aluminum, 7429-90-5†	881.9	1.063 mg/L	0.0360	1.063 mg/L	0.0360	0.0360	0.0360	3.39%
Antimony, 7440-36-0†	-34.5	-0.0045 mg/L	0.00165	-0.0045 mg/L	0.00165	0.00165	0.00165	36.57%
Arsenic, 7440-38-2†	28.3	0.0108 mg/L	0.00119	0.0108 mg/L	0.00119	0.00119	0.00119	10.99%
Barium, 7440-39-3†	255941.2	1.3365 mg/L	0.00198	1.3365 mg/L	0.00198	0.00198	0.00198	0.15%
Beryllium, 7440-41-7†	-958.8	-0.0002 mg/L	0.00002	-0.0002 mg/L	0.00002	0.00002	0.00002	8.53%
Boron, 7440-42-8†	7620.5	0.1270 mg/L	0.00329	0.1270 mg/L	0.00329	0.00329	0.00329	2.59%
Cadmium, 7440-43-9†	-884.0	-0.0037 mg/L	0.00008	-0.0037 mg/L	0.00008	0.00008	0.00008	2.30%
Calcium, 7440-70-2†	1085685.7	572.2 mg/L	4.88	572.2 mg/L	4.88	4.88	4.88	0.85%
Chromium, 7440-47-3†	706.2	0.0028 mg/L	0.00019	0.0028 mg/L	0.00019	0.00019	0.00019	6.69%
Cobalt, 7440-48-4†	114.1	0.0019 mg/L	0.00021	0.0019 mg/L	0.00021	0.00021	0.00021	11.16%
Copper, 7440-50-8†	6469.6	0.0139 mg/L	0.00059	0.0139 mg/L	0.00059	0.00059	0.00059	4.25%
Iron, 7439-89-6†	4821.6	3.2055 mg/L	0.09549	3.2055 mg/L	0.09549	0.09549	0.09549	2.98%
Lead, 7439-92-1†	134.6	0.0160 mg/L	0.00123	0.0160 mg/L	0.00123	0.00123	0.00123	7.67%
Lithium, 7439-93-2†	821.1	0.0139 mg/L	0.00097	0.0139 mg/L	0.00097	0.00097	0.00097	6.98%
Magnesium, 7439-95-4†	11939.6	38.030 mg/L	1.1202	38.030 mg/L	1.1202	1.1202	1.1202	2.95%
Manganese, 7439-96-5†	218837.5	0.268 mg/L	0.0005	0.268 mg/L	0.0005	0.0005	0.0005	0.20%
Molybdenum, 7439-98-7†	109.8	0.0018 mg/L	0.00009	0.0018 mg/L	0.00009	0.00009	0.00009	4.63%
Nickel, 7440-02-0†	1128.2	0.0194 mg/L	0.00036	0.0194 mg/L	0.00036	0.00036	0.00036	1.83%
Potassium, 7440-09-7†	17245.9	7.5968 mg/L	0.15291	7.5968 mg/L	0.15291	0.15291	0.15291	2.01%
Selenium, 7782-49-2†	-37.5	-0.0072 mg/L	0.00661	-0.0072 mg/L	0.00661	0.00661	0.00661	92.38%
Silicon, 7440-21-3†	5671.4	6.2029 mg/L	0.16780	6.2029 mg/L	0.16780	0.16780	0.16780	2.71%
Silver, 7440-22-4†	1677.5	0.0013 mg/L	0.00011	0.0013 mg/L	0.00011	0.00011	0.00011	7.94%
Sodium, 7440-23-5†	Saturated2							
Strontium, 7440-24-6†	1242770.5	2.5995 mg/L	0.01812	2.5995 mg/L	0.01812	0.01812	0.01812	0.70%
Thallium, 7440-28-0†	10.5	0.0025 mg/L	0.00117	0.0025 mg/L	0.00117	0.00117	0.00117	46.84%
Tin, 7440-31-5†	-302.4	-0.0159 mg/L	0.00285	-0.0159 mg/L	0.00285	0.00285	0.00285	17.88%
Titanium, 7440-32-6†	13404.4	0.0231 mg/L	0.00016	0.0231 mg/L	0.00016	0.00016	0.00016	0.71%
Vanadium, 7440-62-2†	-620.8	-0.0052 mg/L	0.00057	-0.0052 mg/L	0.00057	0.00057	0.00057	11.12%
Zinc, 7440-66-6†	9558.6	0.0471 mg/L	0.00103	0.0471 mg/L	0.00103	0.00103	0.00103	2.18%
Zirconium, 7440-67-7†	-7207.9	-0.0076 mg/L	0.00021	-0.0076 mg/L	0.00021	0.00021	0.00021	2.82%

Sequence No.: 51

Sample ID: 20610116802

Analyst:

Logged In Analyst (Original) : met

Initial Sample Wt:

Dilution: 1X

Autosampler Location: 50

Date Collected: 10/13/2006 3:43:51 PM

Data Type: Reprocessed on 10/16/2006 9:33:49 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 20610116802

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc. Units			Conc. Units	Std.Dev.		
Ar 363.268 A	57117.3	81.728 %	0.8695				0.0299	1.06%
Ar 420.067 R	1026570.8	84.346 %	0.6484				0.00076	0.77%
Scandium-IS	3310434.1	116.01 %	1.517					1.31%
Yttrium, 7440-65-5A	1697711.7	111.93 %	1.471					1.31%
Yttrium, 7440-65-5R	104557.1	130.16 %	2.800					2.15%
Aluminum, 7429-90-5†	930.6	1.122 mg/L	0.0299	1.122 mg/L	0.0299	0.0299	0.0299	2.66%
Antimony, 7440-36-0†	-31.5	-0.0041 mg/L	0.00076	-0.0041 mg/L	0.00076	0.00076	0.00076	18.37%
Arsenic, 7440-38-2†	35.0	0.0125 mg/L	0.00096	0.0125 mg/L	0.00096	0.00096	0.00096	7.66%
Barium, 7440-39-3†	247910.6	1.2946 mg/L	0.00223	1.2946 mg/L	0.00223	0.00223	0.00223	0.17%
Beryllium, 7440-41-7†	-1029.6	-0.0003 mg/L	0.00001	-0.0003 mg/L	0.00001	0.00001	0.00001	5.44%
Boron, 7440-42-8†	6166.7	0.1030 mg/L	0.00206	0.1030 mg/L	0.00206	0.00206	0.00206	2.00%
Cadmium, 7440-43-9†	-930.7	-0.0039 mg/L	0.00006	-0.0039 mg/L	0.00006	0.00006	0.00006	1.50%
Calcium, 7440-70-2†	1030327.8	543.0 mg/L	1.49	543.0 mg/L	1.49	1.49	1.49	0.28%
Chromium, 7440-47-3†	643.7	0.0025 mg/L	0.00027	0.0025 mg/L	0.00027	0.00027	0.00027	10.65%
Cobalt, 7440-48-4†	155.8	0.0026 mg/L	0.00017	0.0026 mg/L	0.00017	0.00017	0.00017	6.48%
Copper, 7440-50-8†	5534.6	0.0117 mg/L	0.00014	0.0117 mg/L	0.00014	0.00014	0.00014	1.23%
Iron, 7439-89-6†	4423.1	2.9405 mg/L	0.08066	2.9405 mg/L	0.08066	0.08066	0.08066	2.74%
Lead, 7439-92-1†	131.0	0.0155 mg/L	0.00135	0.0155 mg/L	0.00135	0.00135	0.00135	8.68%

000089

Lithium, 7439-93-2†	715.9	0.0122 mg/L	0.00025	0.0122 mg/L	0.00025	2.09%
Magnesium, 7439-95-4†	11061.1	35.231 mg/L	0.8790	35.231 mg/L	0.8790	2.49%
Manganese, 7439-96-5†	210821.8	0.258 mg/L	0.0002	0.258 mg/L	0.0002	0.07%
Molybdenum, 7439-98-7†	97.4	0.0015 mg/L	0.00067	0.0015 mg/L	0.00067	43.80%
Nickel, 7440-02-0†	1117.5	0.0192 mg/L	0.00067	0.0192 mg/L	0.00067	3.47%
Potassium, 7440-09-7†	17498.2	7.7071 mg/L	0.17482	7.7071 mg/L	0.17482	2.27%
Selenium, 7782-49-2†	-30.8	-0.0041 mg/L	0.00126	-0.0041 mg/L	0.00126	30.90%
Silicon, 7440-21-3†	5688.1	6.2226 mg/L	0.13699	6.2226 mg/L	0.13699	2.20%
Silver, 7440-22-4†	1715.2	0.0016 mg/L	0.00005	0.0016 mg/L	0.00005	3.27%
Sodium, 7440-23-5†	Saturated2					
Strontium, 7440-24-6†	1170220.7	2.4477 mg/L	0.00934	2.4477 mg/L	0.00934	0.38%
Thallium, 7440-28-0†	27.3	0.0050 mg/L	0.00299	0.0050 mg/L	0.00299	59.30%
Tin, 7440-31-5†	-304.1	-0.0169 mg/L	0.00103	-0.0169 mg/L	0.00103	6.10%
Titanium, 7440-32-6†	17918.2	0.0309 mg/L	0.00224	0.0309 mg/L	0.00224	7.26%
Vanadium, 7440-62-2†	-505.0	-0.0042 mg/L	0.00078	-0.0042 mg/L	0.00078	18.48%
Zinc, 7440-66-6†	9593.3	0.0474 mg/L	0.00275	0.0474 mg/L	0.00275	5.80%
Zirconium, 7440-67-7†	-6730.3	-0.0070 mg/L	0.00009	-0.0070 mg/L	0.00009	1.22%

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Sequence No.: 52  
Sample ID: 417438

Autosampler Location: 51  
Date Collected: 10/13/2006 3:50:19 PM  
Data Type: Reprocessed on 10/16/2006 9:33:51 AM

Analyst:  
Logged In Analyst (Original) : met  
Initial Sample Wt:  
Dilution: 1X

Initial Sample Vol:  
Sample Prep Vol:

Mean Data: 417438

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	57568.5	82.374 %	0.5958			0.72%
Ar 420.067 R	1045606.4	85.910 %	0.2983			0.35%
Scandium-IS	3145492.5	110.23 %	1.828			1.66%
Yttrium, 7440-65-5A	1617063.8	106.61 %	1.643			1.54%
Yttrium, 7440-65-5R	95425.9	118.79 %	0.589			0.50%
Aluminum, 7429-90-5†	5866.9	7.081 mg/L	0.0158	7.081 mg/L	0.0158	0.22%
Antimony, 7440-36-0†	3759.4	0.5831 mg/L	0.01256	0.5831 mg/L	0.01256	2.15%
Arsenic, 7440-38-2†	2276.6	0.6379 mg/L	0.01621	0.6379 mg/L	0.01621	2.54%
Barium, 7440-39-3†	369061.8	1.9270 mg/L	0.02105	1.9270 mg/L	0.02105	1.09%
Beryllium, 7440-41-7†	2208075.4	0.5096 mg/L	0.00028	0.5096 mg/L	0.00028	0.06%
Boron, 7440-42-8†	179668.1	2.9515 mg/L	0.02230	2.9515 mg/L	0.02230	0.76%
Cadmium, 7440-43-9†	129537.7	0.5135 mg/L	0.00665	0.5135 mg/L	0.00665	1.30%
Calcium, 7440-70-2†	1113562.3	586.9 mg/L	3.30	586.9 mg/L	3.30	0.56%
Chromium, 7440-47-3†	89483.8	0.5162 mg/L	0.00473	0.5162 mg/L	0.00473	0.92%
Cobalt, 7440-48-4†	30192.4	0.5277 mg/L	0.00946	0.5277 mg/L	0.00946	1.79%
Copper, 7440-50-8†	259517.1	0.6610 mg/L	0.00301	0.6610 mg/L	0.00301	0.46%
Iron, 7439-89-6†	12588.2	8.3667 mg/L	0.01154	8.3667 mg/L	0.01154	0.14%
Lead, 7439-92-1†	6168.4	0.5436 mg/L	0.00893	0.5436 mg/L	0.00893	1.64%
Lithium, 7439-93-2†	57664.2	0.9228 mg/L	0.00053	0.9228 mg/L	0.00053	0.06%
Magnesium, 7439-95-4†	13663.6	43.522 mg/L	0.0970	43.522 mg/L	0.0970	0.22%
Manganese, 7439-96-5†	667351.0	0.817 mg/L	0.0070	0.817 mg/L	0.0070	0.86%
Molybdenum, 7439-98-7†	17326.2	0.5335 mg/L	0.00927	0.5335 mg/L	0.00927	1.74%
Nickel, 7440-02-0†	30038.4	0.5211 mg/L	0.00939	0.5211 mg/L	0.00939	1.80%
Potassium, 7440-09-7†	50305.4	22.133 mg/L	0.1126	22.133 mg/L	0.1126	0.51%
Selenium, 7782-49-2†	1005.5	0.5974 mg/L	0.01684	0.5974 mg/L	0.01684	2.82%
Silicon, 7440-21-3†	7927.2	8.6753 mg/L	0.02011	8.6753 mg/L	0.02011	0.23%
Silver, 7440-22-4†	192094.4	0.6047 mg/L	0.00356	0.6047 mg/L	0.00356	0.59%
Sodium, 7440-23-5†	Saturated2					
Strontium, 7440-24-6†	1512160.8	3.1652 mg/L	0.01517	3.1652 mg/L	0.01517	0.48%
Thallium, 7440-28-0†	3531.7	0.5351 mg/L	0.00869	0.5351 mg/L	0.00869	1.62%
Tin, 7440-31-5†	4934.0	0.5173 mg/L	0.01174	0.5173 mg/L	0.01174	2.27%
Titanium, 7440-32-6†	316597.5	0.5464 mg/L	0.00449	0.5464 mg/L	0.00449	0.82%
Vanadium, 7440-62-2†	69378.7	0.5654 mg/L	0.00439	0.5654 mg/L	0.00439	0.78%
Zinc, 7440-66-6†	121977.6	0.6193 mg/L	0.00604	0.6193 mg/L	0.00604	0.98%
Zirconium, 7440-67-7†	-5870.1	-0.0053 mg/L	0.00012	-0.0053 mg/L	0.00012	2.27%

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Sequence No.: 53  
Sample ID: 417627  
Analyst:  
Logged In Analyst (Original) : met

Autosampler Location: 52  
Date Collected: 10/13/2006 3:56:18 PM  
Data Type: Reprocessed on 10/16/2006 9:33:52 AM

000090

Initial Sample Wt:  
Dilution: 1X

Initial Sample Vol:  
Sample Prep Vol:

Mean Data: 417627

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	57022.5	81.592 %	0.8355			1.02%
Ar 420.067 R	1050018.4	86.273 %	0.3724			0.43%
Scandium-IS	3193731.6	111.92 %	1.094			0.98%
Yttrium, 7440-65-5A	1640018.1	108.13 %	1.093			1.01%
Yttrium, 7440-65-5R	94173.2	117.23 %	0.448			0.38%
Aluminum, 7429-90-5†	6579.5	7.941 mg/L	0.0359	7.941 mg/L	0.0359	0.45%
Antimony, 7440-36-0†	3457.8	0.5364 mg/L	0.00607	0.5364 mg/L	0.00607	1.13%
Arsenic, 7440-38-2†	2075.6	0.5819 mg/L	0.00563	0.5819 mg/L	0.00563	0.97%
Barium, 7440-39-3†	353540.7	1.8459 mg/L	0.00534	1.8459 mg/L	0.00534	0.29%
Beryllium, 7440-41-7†	1987116.6	0.4586 mg/L	0.00085	0.4586 mg/L	0.00085	0.19%
Boron, 7440-42-8†	167083.0	2.7450 mg/L	0.00975	2.7450 mg/L	0.00975	0.36%
Cadmium, 7440-43-9†	116502.6	0.4618 mg/L	0.00327	0.4618 mg/L	0.00327	0.71%
Calcium, 7440-70-2†	1084350.5	571.5 mg/L	8.41	571.5 mg/L	8.41	1.47%
Chromium, 7440-47-3†	80776.6	0.4657 mg/L	0.00081	0.4657 mg/L	0.00081	0.17%
Cobalt, 7440-48-4†	27361.8	0.4780 mg/L	0.00607	0.4780 mg/L	0.00607	1.27%
Copper, 7440-50-8†	234597.2	0.5973 mg/L	0.00199	0.5973 mg/L	0.00199	0.33%
Iron, 7439-89-6†	12167.2	8.0868 mg/L	0.03313	8.0868 mg/L	0.03313	0.41%
Lead, 7439-92-1†	5578.8	0.4922 mg/L	0.00438	0.4922 mg/L	0.00438	0.89%
Lithium, 7439-93-2†	52320.6	0.8373 mg/L	0.00529	0.8373 mg/L	0.00529	0.63%
Magnesium, 7439-95-4†	13436.6	42.799 mg/L	0.0109	42.799 mg/L	0.0109	0.03%
Manganese, 7439-96-5†	617675.9	0.756 mg/L	0.0016	0.756 mg/L	0.0016	0.21%
Molybdenum, 7439-98-7†	15811.4	0.4867 mg/L	0.00619	0.4867 mg/L	0.00619	1.27%
Nickel, 7440-02-0†	27311.0	0.4737 mg/L	0.00596	0.4737 mg/L	0.00596	1.26%
Potassium, 7440-09-7†	48285.7	21.244 mg/L	0.1383	21.244 mg/L	0.1383	0.65%
Selenium, 7782-49-2†	911.3	0.5427 mg/L	0.00340	0.5427 mg/L	0.00340	0.63%
Silicon, 7440-21-3†	11639.1	12.749 mg/L	0.1125	12.749 mg/L	0.1125	0.88%
Silver, 7440-22-4†	175246.7	0.5514 mg/L	0.00112	0.5514 mg/L	0.00112	0.20%
Sodium, 7440-23-5†	Saturated2					
Strontium, 7440-24-6†	1454715.6	3.0448 mg/L	0.04204	3.0448 mg/L	0.04204	1.38%
Thallium, 7440-28-0†	3195.8	0.4848 mg/L	0.00444	0.4848 mg/L	0.00444	0.92%
Tin, 7440-31-5†	4500.2	0.4727 mg/L	0.00636	0.4727 mg/L	0.00636	1.34%
Titanium, 7440-32-6†	345350.1	0.5961 mg/L	0.01250	0.5961 mg/L	0.01250	2.10%
Vanadium, 7440-62-2†	62416.2	0.5087 mg/L	0.00122	0.5087 mg/L	0.00122	0.24%
Zinc, 7440-66-6†	112548.9	0.5714 mg/L	0.00140	0.5714 mg/L	0.00140	0.24%
Zirconium, 7440-67-7†	-4960.9	-0.0037 mg/L	0.00018	-0.0037 mg/L	0.00018	4.86%

Sequence No.: 54

Autosampler Location: 53

Sample ID: 417628

Date Collected: 10/13/2006 4:02:06 PM

Analyst:

Data Type: Reprocessed on 10/16/2006 9:33:54 AM

Logged In Analyst (Original) : met

Initial Sample Vol:

Initial Sample Wt:

Sample Prep Vol:

Dilution: 5X

Mean Data: 417628

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	65538.4	93.778 %	0.1956			0.21%
Ar 420.067 R	1153861.9	94.805 %	0.2863			0.30%
Scandium-IS	3527206.8	123.61 %	2.309			1.87%
Yttrium, 7440-65-5A	1832352.4	120.81 %	2.235			1.85%
Yttrium, 7440-65-5R	104423.6	129.99 %	1.582			1.22%
Aluminum, 7429-90-5†	613.3	0.740 mg/L	0.0070	3.699 mg/L	0.0352	0.95%
Antimony, 7440-36-0†	-29.4	-0.0044 mg/L	0.00030	-0.0222 mg/L	0.00150	6.78%
Arsenic, 7440-38-2†	23.7	0.0072 mg/L	0.00054	0.0360 mg/L	0.00270	7.49%
Barium, 7440-39-3†	53562.5	0.2797 mg/L	0.00034	1.3984 mg/L	0.00169	0.12%
Beryllium, 7440-41-7†	-350.0	-0.0001 mg/L	0.00001	-0.0005 mg/L	0.00003	7.00%
Boron, 7440-42-8†	3838.9	0.0634 mg/L	0.00248	0.3172 mg/L	0.01242	3.91%
Cadmium, 7440-43-9†	-411.5	-0.0017 mg/L	0.00001	-0.0083 mg/L	0.00004	0.47%
Calcium, 7440-70-2†	230769.6	121.6 mg/L	0.03	608.1 mg/L	0.15	0.03%
Chromium, 7440-47-3†	4.4	-0.0003 mg/L	0.00014	-0.0013 mg/L	0.00072	53.77%
Cobalt, 7440-48-4†	66.5	0.0011 mg/L	0.00028	0.0054 mg/L	0.00142	26.52%
Copper, 7440-50-8†	781.7	0.0014 mg/L	0.00022	0.0072 mg/L	0.00111	15.45%

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Iron, 7439-89-6†	1154.1	0.7672 mg/L	0.00806	3.8361 mg/L	0.04030	1.05%
Lead, 7439-92-1†	28.7	0.0035 mg/L	0.00103	0.0177 mg/L	0.00516	29.18%
Lithium, 7439-93-2†	-125.9	-0.0018 mg/L	0.00034	-0.0092 mg/L	0.00169	18.28%
Magnesium, 7439-95-4†	2514.3	8.0085 mg/L	0.04021	40.042 mg/L	0.2011	0.50%
Manganese, 7439-96-5†	46118.8	0.056 mg/L	0.00000	0.282 mg/L	0.0002	0.08%
Molybdenum, 7439-98-7†	54.4	0.0014 mg/L	0.00005	0.0068 mg/L	0.00023	3.33%
Nickel, 7440-02-0†	189.1	0.0032 mg/L	0.00019	0.0161 mg/L	0.00093	5.80%
Potassium, 7440-09-7†	3282.0	1.4460 mg/L	0.03636	7.2298 mg/L	0.18178	2.51%
Selenium, 7782-49-2†	-17.1	-0.0067 mg/L	0.00292	-0.0335 mg/L	0.01460	43.63%
Silicon, 7440-21-3†	2472.9	2.7092 mg/L	0.00508	13.546 mg/L	0.0254	0.19%
Silver, 7440-22-4†	502.1	0.0008 mg/L	0.00009	0.0039 mg/L	0.00044	11.22%
Sodium, 7440-23-5†	3909113.0	685.51 mg/L	5.861	3427.6 mg/L	29.31	0.86%
Strontium, 7440-24-6†	250663.1	0.5242 mg/L	0.00079	2.6210 mg/L	0.00396	0.15%
Thallium, 7440-28-0†	23.4	0.0039 mg/L	0.00040	0.0194 mg/L	0.00199	10.30%
Tin, 7440-31-5†	-208.9	-0.0181 mg/L	0.00080	-0.0906 mg/L	0.00402	4.44%
Titanium, 7440-32-6†	20813.0	0.0359 mg/L	0.00317	0.1796 mg/L	0.01586	8.83%
Vanadium, 7440-62-2†	-121.5	-0.0010 mg/L	0.00059	-0.0051 mg/L	0.00297	58.12%
Zinc, 7440-66-6†	1687.9	0.0083 mg/L	0.00030	0.0413 mg/L	0.00150	3.64%
Zirconium, 7440-67-7†	-4267.7	-0.0072 mg/L	0.00036	-0.0362 mg/L	0.00178	4.90%

Sequence No.: 55  
 Sample ID: 20610115201

Autosampler Location: 54  
 Date Collected: 10/13/2006 4:08:55 PM  
 Data Type: Reprocessed on 10/16/2006 9:33:56 AM

Analyst:  
 Logged In Analyst (Original) : met  
 Initial Sample Wt:  
 Dilution: 1X

Initial Sample Vol:  
 Sample Prep Vol:

Mean Data: 20610115201

Analyte	Mean Corrected	Calib	Sample
	Intensity	Conc. Units	Conc. Units
		Std.Dev.	Std.Dev.
Ar 363.268 A	67875.2	97.121 %	0.4349
Ar 420.067 R	1154667.0	94.871 %	0.7486
Scandium-IS	3462801.1	121.35 %	1.915
Yttrium, 7440-65-5A	1798611.1	118.58 %	1.959
Yttrium, 7440-65-5R	109209.8	135.95 %	5.354
Aluminum, 7429-90-5†	207.2	0.252 mg/L	0.0087
Antimony, 7440-36-0†	567.2	0.0889 mg/L	0.00228
Arsenic, 7440-38-2†	35.9	0.0149 mg/L	0.00214
Barium, 7440-39-3†	18895.1	0.0985 mg/L	0.00062
Beryllium, 7440-41-7†	-415.6	-0.0001 mg/L	0.00000
Boron, 7440-42-8†	20886.5	0.3427 mg/L	0.00051
Cadmium, 7440-43-9†	-967.0	-0.0038 mg/L	0.00010
Calcium, 7440-70-2†	85780.6	45.21 mg/L	0.047
Chromium, 7440-47-3†	-42.4	0.0000 mg/L	0.00015
Cobalt, 7440-48-4†	435.7	0.0076 mg/L	0.00015
Copper, 7440-50-8†	1074.1	0.0024 mg/L	0.00024
Iron, 7439-89-6†	63.5	0.0422 mg/L	0.00219
Lead, 7439-92-1†	5.3	0.0008 mg/L	0.00097
Lithium, 7439-93-2†	8025.5	0.1284 mg/L	0.00022
Magnesium, 7439-95-4†	4341.4	13.827 mg/L	0.2627
Manganese, 7439-96-5†	8260.4	0.010 mg/L	0.0001
Molybdenum, 7439-98-7†	2274.5	0.0701 mg/L	0.00073
Nickel, 7440-02-0†	392.2	0.0068 mg/L	0.00045
Potassium, 7440-09-7†	22157.9	9.7444 mg/L	0.05003
Selenium, 7782-49-2†	152.3	0.0886 mg/L	0.00283
Silicon, 7440-21-3†	7325.9	8.0320 mg/L	0.04965
Silver, 7440-22-4†	-570.2	0.0004 mg/L	0.00021
Sodium, 7440-23-5†	5194815.4	910.98 mg/L	16.302
Strontium, 7440-24-6†	278572.5	0.5844 mg/L	0.01845
Thallium, 7440-28-0†	16.8	0.0027 mg/L	0.00082
Tin, 7440-31-5†	-182.7	-0.0173 mg/L	0.00067
Titanium, 7440-32-6†	657.4	0.0011 mg/L	0.00014
Vanadium, 7440-62-2†	24511.3	0.2004 mg/L	0.00040
Zinc, 7440-66-6†	4731.2	0.0239 mg/L	0.00016
Zirconium, 7440-67-7†	-3267.9	-0.0061 mg/L	0.00010

Sequence No.: 56  
 Sample ID: 20610116101

Autosampler Location: 55  
 Date Collected: 10/13/2006 4:15:55 PM

000092

Analyst:

Logged In Analyst (Original) : met

Initial Sample Wt:

Dilution: 5X

Data Type: Reprocessed on 10/16/2006 9:33:58 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 20610116101

Analyte	Mean Corrected		Calib		Sample		Std.Dev.	RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units		
Ar 363.268 A	69065.3	98.824	%	1.2229				1.24%
Ar 420.067 R	1143475.3	93.951	%	0.1338				0.14%
Scandium-IS	3275710.6	114.79	%	7.986				6.96%
Yttrium, 7440-65-5A	1693922.0	111.68	%	7.572				6.78%
Yttrium, 7440-65-5R	105253.2	131.03	%	1.383				1.06%
Aluminum, 7429-90-5†	-10.8	-0.013	mg/L	0.0102	-0.065	mg/L	0.0510	78.30%
Antimony, 7440-36-0†	-21.1	-0.0033	mg/L	0.00194	-0.0164	mg/L	0.00971	59.04%
Arsenic, 7440-38-2†	50.0	0.0137	mg/L	0.00144	0.0684	mg/L	0.00719	10.50%
Barium, 7440-39-3†	672.5	0.0035	mg/L	0.00005	0.0175	mg/L	0.00025	1.45%
Beryllium, 7440-41-7†	-292.2	-0.0001	mg/L	0.00003	-0.0003	mg/L	0.00017	50.12%
Boron, 7440-42-8†	3967.8	0.0651	mg/L	0.00221	0.3254	mg/L	0.01103	3.39%
Cadmium, 7440-43-9†	-107.6	-0.0004	mg/L	0.00015	-0.0021	mg/L	0.00074	34.43%
Calcium, 7440-70-2†	2584.7	1.362	mg/L	0.0184	6.811	mg/L	0.0922	1.35%
Chromium, 7440-47-3†	-290.8	-0.0017	mg/L	0.00025	-0.0083	mg/L	0.00124	14.98%
Cobalt, 7440-48-4†	12.6	0.0002	mg/L	0.00036	0.0011	mg/L	0.00182	167.09%
Copper, 7440-50-8†	796.5	0.0020	mg/L	0.00044	0.0102	mg/L	0.00219	21.53%
Iron, 7439-89-6†	24.8	0.0165	mg/L	0.00266	0.0823	mg/L	0.01329	16.16%
Lead, 7439-92-1†	14.6	0.0013	mg/L	0.00114	0.0064	mg/L	0.00571	89.41%
Lithium, 7439-93-2†	151.2	0.0024	mg/L	0.00069	0.0121	mg/L	0.00343	28.39%
Magnesium, 7439-95-4†	99.9	0.3183	mg/L	0.00788	1.5913	mg/L	0.03939	2.48%
Manganese, 7439-96-5†	2075.0	0.003	mg/L	0.0001	0.013	mg/L	0.0004	3.23%
Molybdenum, 7439-98-7†	122.6	0.0038	mg/L	0.00053	0.0189	mg/L	0.00263	13.92%
Nickel, 7440-02-0†	18.3	0.0003	mg/L	0.00012	0.0016	mg/L	0.00059	37.19%
Potassium, 7440-09-7†	10761.7	4.7324	mg/L	0.10955	23.662	mg/L	0.5477	2.31%
Selenium, 7782-49-2†	2.5	0.0015	mg/L	0.00438	0.0073	mg/L	0.02190	299.77%
Silicon, 7440-21-3†	305.7	0.3353	mg/L	0.00530	1.6766	mg/L	0.02649	1.58%
Silver, 7440-22-4†	68.2	0.0003	mg/L	0.00032	0.0013	mg/L	0.00159	123.84%
Sodium, 7440-23-5†	Saturated2							
Strontium, 7440-24-6†	3108.0	0.0065	mg/L	0.00014	0.0325	mg/L	0.00069	2.13%
Thallium, 7440-28-0†	21.1	0.0032	mg/L	0.00091	0.0159	mg/L	0.00457	28.73%
Tin, 7440-31-5†	-56.7	-0.0057	mg/L	0.00093	-0.0286	mg/L	0.00464	16.21%
Titanium, 7440-32-6†	36.2	0.0001	mg/L	0.00009	0.0003	mg/L	0.00043	139.91%
Vanadium, 7440-62-2†	484.9	0.0040	mg/L	0.00111	0.0198	mg/L	0.00553	27.90%
Zinc, 7440-66-6†	152.0	0.0008	mg/L	0.00022	0.0038	mg/L	0.00108	28.18%
Zirconium, 7440-67-7†	-485.5	-0.0010	mg/L	0.00008	-0.0049	mg/L	0.00041	8.34%

Sequence No.: 57

Autosampler Location: 56

Sample ID: ---

Date Collected: 10/13/2006 4:22:32 PM

Analyst:

Data Type: Reprocessed on 10/16/2006 9:33:59 AM

Logged In Analyst (Original) : met

Initial Sample Wt:

Initial Sample Vol:

Dilution: 1X

Sample Prep Vol:

Mean Data: ---

Analyte	Mean Corrected		Calib		Sample		Std.Dev.	RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units		
Ar 363.268 A	71070.8	101.69	%	0.615				0.60%
Ar 420.067 R	1191963.1	97.935	%	0.1007				0.10%
Scandium-IS	3640942.4	127.59	%	1.727				1.35%
Yttrium, 7440-65-5A	1935827.1	127.63	%	1.747				1.37%
Yttrium, 7440-65-5R	107016.6	133.22	%	1.944				1.46%
Aluminum, 7429-90-5†	-21.0	-0.025	mg/L	0.0082	-0.025	mg/L	0.0082	32.25%
Antimony, 7440-36-0†	-24.8	-0.0039	mg/L	0.00021	-0.0039	mg/L	0.00021	5.52%
Arsenic, 7440-38-2†	22.8	0.0061	mg/L	0.00040	0.0061	mg/L	0.00040	6.48%
Barium, 7440-39-3†	29.0	0.0002	mg/L	0.00004	0.0002	mg/L	0.00004	25.74%
Beryllium, 7440-41-7†	-281.5	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	17.88%
Boron, 7440-42-8†	1558.5	0.0255	mg/L	0.00035	0.0255	mg/L	0.00035	1.37%
Cadmium, 7440-43-9†	-116.9	-0.0005	mg/L	0.00008	-0.0005	mg/L	0.00008	16.81%
Calcium, 7440-70-2†	-47.3	-0.025	mg/L	0.0031	-0.025	mg/L	0.0031	12.49%
Chromium, 7440-47-3†	-339.1	-0.0020	mg/L	0.00015	-0.0020	mg/L	0.00015	7.74%

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Cobalt, 7440-48-4†	59.1	0.0010 mg/L	0.00013	0.0010 mg/L	0.00013	12.68%
Copper, 7440-50-8†	-1263.7	-0.0032 mg/L	0.00027	-0.0032 mg/L	0.00027	8.31%
Iron, 7439-89-6†	-48.1	-0.0320 mg/L	0.00023	-0.0320 mg/L	0.00023	0.70%
Lead, 7439-92-1†	3.4	0.0003 mg/L	0.00070	0.0003 mg/L	0.00070	234.51%
Lithium, 7439-93-2†	-161.5	-0.0026 mg/L	0.00052	-0.0026 mg/L	0.00052	20.08%
Magnesium, 7439-95-4†	-0.4	-0.0014 mg/L	0.00746	-0.0014 mg/L	0.00746	517.03%
Manganese, 7439-96-5†	13.7	0.000 mg/L	0.0000	0.000 mg/L	0.0000	193.00%
Molybdenum, 7439-98-7†	11.4	0.0004 mg/L	0.00019	0.0004 mg/L	0.00019	54.83%
Nickel, 7440-02-0†	-42.5	-0.0007 mg/L	0.00010	-0.0007 mg/L	0.00010	12.97%
Potassium, 7440-09-7†	305.7	0.1344 mg/L	0.00829	0.1344 mg/L	0.00829	6.17%
Selenium, 7782-49-2†	10.6	0.0061 mg/L	0.00369	0.0061 mg/L	0.00369	60.46%
Silicon, 7440-21-3†	-18.9	-0.0207 mg/L	0.00096	-0.0207 mg/L	0.00096	4.65%
Silver, 7440-22-4†	152.3	0.0004 mg/L	0.00019	0.0004 mg/L	0.00019	42.33%
Sodium, 7440-23-5†	8473.3	1.4859 mg/L	0.05557	1.4859 mg/L	0.05557	3.74%
Strontium, 7440-24-6†	181.8	0.0004 mg/L	0.00003	0.0004 mg/L	0.00003	7.38%
Thallium, 7440-28-0†	10.6	0.0016 mg/L	0.00086	0.0016 mg/L	0.00086	53.93%
Tin, 7440-31-5†	-36.9	-0.0038 mg/L	0.00108	-0.0038 mg/L	0.00108	28.75%
Titanium, 7440-32-6†	159.6	0.0003 mg/L	0.00017	0.0003 mg/L	0.00017	61.09%
Vanadium, 7440-62-2†	-205.7	-0.0017 mg/L	0.00039	-0.0017 mg/L	0.00039	23.49%
Zinc, 7440-66-6†	-380.9	-0.0019 mg/L	0.00003	-0.0019 mg/L	0.00003	1.60%
Zirconium, 7440-67-7†	-432.7	-0.0009 mg/L	0.00006	-0.0009 mg/L	0.00006	6.94%

Sequence No.: 58

Autosampler Location: 7

Sample ID: 1800

Date Collected: 10/13/2006 4:29:22 PM

Analyst:

Data Type: Reprocessed on 10/16/2006 9:34:01 AM

Logged In Analyst (Original) : met

Initial Sample Vol:

Initial Sample Wt:

Dilution:

Sample Prep Vol:

## Mean Data: 1800

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std. Dev.	Sample Conc. Units	Std. Dev.	RSD
Ar 363.268 A	70729.1	101.20 %	0.266			0.26%
Ar 420.067 R	1197890.7	98.422 %	0.3363			0.34%
Scandium-1S	3451549.7	120.96 %	0.679			0.56%
Yttrium, 7440-65-5A	1821237.7	120.08 %	0.663			0.55%
Yttrium, 7440-65-5R	101380.9	126.21 %	1.070			0.85%
Aluminum, 7429-90-5†	3977.9	4.803 mg/L	0.0530	4.803 mg/L	0.0530	1.10%
QC value within limits for Aluminum, 7429-90-5		Recovery = 96.06%				
Antimony, 7440-36-0†	3196.1	0.4941 mg/L	0.00888	0.4941 mg/L	0.00888	1.80%
QC value within limits for Antimony, 7440-36-0		Recovery = 98.82%				
Arsenic, 7440-38-2†	1921.8	0.5367 mg/L	0.00932	0.5367 mg/L	0.00932	1.74%
QC value within limits for Arsenic, 7440-38-2		Recovery = 107.35%				
Barium, 7440-39-3†	97869.0	0.5109 mg/L	0.00725	0.5109 mg/L	0.00725	1.42%
QC value within limits for Barium, 7440-39-3		Recovery = 102.18%				
Beryllium, 7440-41-7†	2166153.1	0.5000 mg/L	0.00168	0.5000 mg/L	0.00168	0.34%
QC value within limits for Beryllium, 7440-41-7		Recovery = 100.00%				
Boron, 7440-42-8†	155787.5	2.5577 mg/L	0.03480	2.5577 mg/L	0.03480	1.36%
QC value within limits for Boron, 7440-42-8		Recovery = 102.31%				
Cadmium, 7440-43-9†	129541.9	0.5138 mg/L	0.00742	0.5138 mg/L	0.00742	1.44%
QC value within limits for Cadmium, 7440-43-9		Recovery = 102.76%				
Calcium, 7440-70-2†	9686.8	5.103 mg/L	0.0557	5.103 mg/L	0.0557	1.09%
QC value within limits for Calcium, 7440-70-2		Recovery = 102.06%				
Chromium, 7440-47-3†	88348.4	0.5108 mg/L	0.00759	0.5108 mg/L	0.00759	1.49%
QC value within limits for Chromium, 7440-47-3		Recovery = 102.16%				
Cobalt, 7440-48-4†	29030.2	0.5077 mg/L	0.00826	0.5077 mg/L	0.00826	1.63%
QC value within limits for Cobalt, 7440-48-4		Recovery = 101.55%				
Copper, 7440-50-8†	194741.5	0.4977 mg/L	0.00711	0.4977 mg/L	0.00711	1.43%
QC value within limits for Copper, 7440-50-8		Recovery = 99.53%				
Iron, 7439-89-6†	7427.4	4.9359 mg/L	0.04002	4.9359 mg/L	0.04002	0.81%
QC value within limits for Iron, 7439-89-6		Recovery = 98.72%				
Lead, 7439-92-1†	5814.8	0.5084 mg/L	0.00866	0.5084 mg/L	0.00866	1.70%
QC value within limits for Lead, 7439-92-1		Recovery = 101.68%				
Lithium, 7439-93-2†	29950.6	0.4789 mg/L	0.00084	0.4789 mg/L	0.00084	0.18%
QC value within limits for Lithium, 7439-93-2		Recovery = 95.79%				
Magnesium, 7439-95-4†	1554.8	4.9535 mg/L	0.05654	4.9535 mg/L	0.05654	1.14%
QC value within limits for Magnesium, 7439-95-4		Recovery = 99.07%				
Manganese, 7439-96-5†	419315.0	0.514 mg/L	0.0074	0.514 mg/L	0.0074	1.45%
QC value within limits for Manganese, 7439-96-5		Recovery = 102.74%				

000094

Molybdenum, 7439-98-7† 16129.4 0.4981 mg/L 0.00804 0.4981 mg/L 0.00804 1.61%  
QC value within limits for Molybdenum, 7439-98-7 Recovery = 99.62%

Nickel, 7440-02-0† 29379.9 0.5099 mg/L 0.00748 0.5099 mg/L 0.00748 1.47%  
QC value within limits for Nickel, 7440-02-0 Recovery = 101.97%

Potassium, 7440-09-7† 21941.0 9.6465 mg/L 0.06047 9.6465 mg/L 0.06047 0.63%  
QC value within limits for Potassium, 7440-09-7 Recovery = 96.46%

Selenium, 7782-49-2† 875.3 0.5074 mg/L 0.01386 0.5074 mg/L 0.01386 2.73%  
QC value within limits for Selenium, 7782-49-2 Recovery = 101.49%

Silicon, 7440-21-3† 426.0 0.4649 mg/L 0.00621 0.4649 mg/L 0.00621 1.33%  
QC value within limits for Silicon, 7440-21-3 Recovery = 92.97%

Silver, 7440-22-4† 160920.9 0.5105 mg/L 0.00672 0.5105 mg/L 0.00672 1.32%  
QC value within limits for Silver, 7440-22-4 Recovery = 102.11%

Sodium, 7440-23-5† 113139.2 19.838 mg/L 0.0614 19.838 mg/L 0.0614 0.31%  
QC value within limits for Sodium, 7440-23-5 Recovery = 99.19%

Strontium, 7440-24-6† 232341.6 0.4880 mg/L 0.00279 0.4880 mg/L 0.00279 0.57%  
QC value within limits for Strontium, 7440-24-6 Recovery = 97.60%

Thallium, 7440-28-0† 3372.2 0.5100 mg/L 0.00912 0.5100 mg/L 0.00912 1.79%  
QC value within limits for Thallium, 7440-28-0 Recovery = 102.00%

Tin, 7440-31-5† 5041.0 0.5131 mg/L 0.00892 0.5131 mg/L 0.00892 1.74%  
QC value within limits for Tin, 7440-31-5 Recovery = 102.63%

Titanium, 7440-32-6† 289710.0 0.5000 mg/L 0.00150 0.5000 mg/L 0.00150 0.30%  
QC value within limits for Titanium, 7440-32-6 Recovery = 100.01%

Vanadium, 7440-62-2† 62932.6 0.5130 mg/L 0.00790 0.5130 mg/L 0.00790 1.54%  
QC value within limits for Vanadium, 7440-62-2 Recovery = 102.59%

Zinc, 7440-66-6† 99353.6 0.5054 mg/L 0.00735 0.5054 mg/L 0.00735 1.45%  
QC value within limits for Zinc, 7440-66-6 Recovery = 101.08%

Zirconium, 7440-67-7† 246494.6 0.5037 mg/L 0.00734 0.5037 mg/L 0.00734 1.46%  
QC value within limits for Zirconium, 7440-67-7 Recovery = 100.73%

All analyte(s) passed QC.

Sequence No.: 59

Autosampler Location: 1

Sample ID: 1900

Date Collected: 10/13/2006 4:36:16 PM

Analyst:

Data Type: Reprocessed on 10/16/2006 9:34:03 AM

Logged In Analyst (Original) : met

Initial Sample Vol:

Initial Sample Wt:

Sample Prep Vol:

Dilution:  
Mean Data: 1900

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	71269.2	101.98 %	0.335			0.33%
Ar 420.067 R	1198715.4	98.490 %	0.2965			0.30%
Scandium-IS	3513369.2	123.12 %	1.062			0.86%
Yttrium, 7440-65-5A	1869658.7	123.27 %	1.032			0.84%
Yttrium, 7440-65-5R	99231.8	123.53 %	2.216			1.79%
Aluminum, 7429-90-5†	-18.8	-0.023 mg/L	0.0025	-0.023 mg/L	0.0025	11.05%
QC value within limits for Aluminum, 7429-90-5		Recovery = Not calculated				
Antimony, 7440-36-0†	-14.7	-0.0023 mg/L	0.00125	-0.0023 mg/L	0.00125	54.96%
QC value within limits for Antimony, 7440-36-0		Recovery = Not calculated				
Arsenic, 7440-38-2†	21.7	0.0058 mg/L	0.00042	0.0058 mg/L	0.00042	7.22%
QC value within limits for Arsenic, 7440-38-2		Recovery = Not calculated				
Barium, 7440-39-3†	13.8	0.0001 mg/L	0.00010	0.0001 mg/L	0.00010	137.07%
QC value within limits for Barium, 7440-39-3		Recovery = Not calculated				
Beryllium, 7440-41-7†	-129.0	0.0000 mg/L	0.00001	0.0000 mg/L	0.00001	42.79%
QC value within limits for Beryllium, 7440-41-7		Recovery = Not calculated				
Boron, 7440-42-8†	2796.4	0.0458 mg/L	0.00199	0.0458 mg/L	0.00199	4.35%
QC value within limits for Boron, 7440-42-8		Recovery = Not calculated				
Cadmium, 7440-43-9†	-84.4	-0.0003 mg/L	0.00003	-0.0003 mg/L	0.00003	9.03%
QC value within limits for Cadmium, 7440-43-9		Recovery = Not calculated				
Calcium, 7440-70-2†	-61.3	-0.032 mg/L	0.0031	-0.032 mg/L	0.0031	9.65%
QC value within limits for Calcium, 7440-70-2		Recovery = Not calculated				
Chromium, 7440-47-3†	-300.8	-0.0017 mg/L	0.00015	-0.0017 mg/L	0.00015	8.31%
QC value within limits for Chromium, 7440-47-3		Recovery = Not calculated				
Cobalt, 7440-48-4†	42.0	0.0007 mg/L	0.00018	0.0007 mg/L	0.00018	24.51%
QC value within limits for Cobalt, 7440-48-4		Recovery = Not calculated				
Copper, 7440-50-8†	-884.5	-0.0023 mg/L	0.00018	-0.0023 mg/L	0.00018	8.14%
QC value within limits for Copper, 7440-50-8		Recovery = Not calculated				
Iron, 7439-89-6†	-51.5	-0.0342 mg/L	0.00176	-0.0342 mg/L	0.00176	5.14%
QC value within limits for Iron, 7439-89-6		Recovery = Not calculated				

000095

Lead, 7439-92-1† 0.7 0.0001 mg/L 0.00099 0.0001 mg/L 0.00099 >999.9%  
   QC value within limits for Lead, 7439-92-1 Recovery = Not calculated  
 Lithium, 7439-93-2† -80.5 -0.0013 mg/L 0.00028 -0.0013 mg/L 0.00028 21.98%  
   QC value within limits for Lithium, 7439-93-2 Recovery = Not calculated  
 Magnesium, 7439-95-4† 5.7 0.0181 mg/L 0.02402 0.0181 mg/L 0.02402 132.74%  
   QC value within limits for Magnesium, 7439-95-4 Recovery = Not calculated  
 Manganese, 7439-96-5† -322.1 0.000 mg/L 0.00000 0.000 mg/L 0.00000 6.06%  
   QC value within limits for Manganese, 7439-96-5 Recovery = Not calculated  
 Molybdenum, 7439-98-7† 9.5 0.0003 mg/L 0.00026 0.0003 mg/L 0.00026 87.39%  
   QC value within limits for Molybdenum, 7439-98-7 Recovery = Not calculated  
 Nickel, 7440-02-0† -47.0 -0.0008 mg/L 0.00011 -0.0008 mg/L 0.00011 13.08%  
   QC value within limits for Nickel, 7440-02-0 Recovery = Not calculated  
 Potassium, 7440-09-7† 195.6 0.0860 mg/L 0.00813 0.0860 mg/L 0.00813 9.45%  
   QC value within limits for Potassium, 7440-09-7 Recovery = Not calculated  
 Selenium, 7782-49-2† 12.7 0.0073 mg/L 0.00177 0.0073 mg/L 0.00177 24.14%  
   QC value within limits for Selenium, 7782-49-2 Recovery = Not calculated  
 Silicon, 7440-21-3† -14.7 -0.0161 mg/L 0.00309 -0.0161 mg/L 0.00309 19.15%  
   QC value within limits for Silicon, 7440-21-3 Recovery = Not calculated  
 Silver, 7440-22-4† 103.7 0.0003 mg/L 0.00007 0.0003 mg/L 0.00007 24.97%  
   QC value within limits for Silver, 7440-22-4 Recovery = Not calculated  
 Sodium, 7440-23-5† 4567.9 0.8010 mg/L 0.01055 0.8010 mg/L 0.01055 1.32%  
   QC value within limits for Sodium, 7440-23-5 Recovery = Not calculated  
 Strontium, 7440-24-6† 123.2 0.0003 mg/L 0.00002 0.0003 mg/L 0.00002 8.80%  
   QC value within limits for Strontium, 7440-24-6 Recovery = Not calculated  
 Thallium, 7440-28-0† 13.8 0.0021 mg/L 0.00087 0.0021 mg/L 0.00087 41.72%  
   QC value within limits for Thallium, 7440-28-0 Recovery = Not calculated  
 Tin, 7440-31-5† -23.4 -0.0024 mg/L 0.00089 -0.0024 mg/L 0.00089 37.43%  
   QC value within limits for Tin, 7440-31-5 Recovery = Not calculated  
 Titanium, 7440-32-6† 153.7 0.0003 mg/L 0.00019 0.0003 mg/L 0.00019 72.15%  
   QC value within limits for Titanium, 7440-32-6 Recovery = Not calculated  
 Vanadium, 7440-62-2† -186.1 -0.0015 mg/L 0.00066 -0.0015 mg/L 0.00066 43.73%  
   QC value within limits for Vanadium, 7440-62-2 Recovery = Not calculated  
 Zinc, 7440-66-6† -292.5 -0.0015 mg/L 0.00025 -0.0015 mg/L 0.00025 16.93%  
   QC value within limits for Zinc, 7440-66-6 Recovery = Not calculated  
 Zirconium, 7440-67-7† 18.0 0.0000 mg/L 0.00010 0.0000 mg/L 0.00010 275.43%  
   QC value within limits for Zirconium, 7440-67-7 Recovery = Not calculated  
 All analyte(s) passed QC.

Sequence No.: 60  
 Sample ID: 417510  
 Analyst:

Autosampler Location: 57  
 Date Collected: 10/13/2006 4:43:05 PM  
 Data Type: Reprocessed on 10/16/2006 9:34:05 AM

Logged In Analyst (Original) : met  
 Initial Sample Wt:  
 Dilution: 1X

Initial Sample Vol:  
 Sample Prep Vol:

Mean Data: 417510

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc. Units			Conc. Units	Std.Dev.		
Ar 363.268 A	71521.2	102.34 %	0.362		-0.010 mg/L	0.0062	64.22%	0.35%
Ar 420.067 R	1211276.1	99.522 %	0.1977		-0.0028 mg/L	0.00143	50.33%	0.20%
Scandium-IS	3579866.3	125.45 %	1.407		0.0071 mg/L	0.00118	16.51%	1.12%
Yttrium, 7440-65-5A	1898267.0	125.15 %	1.325		-0.0003 mg/L	0.00002	6.57%	1.06%
Yttrium, 7440-65-5R	104012.5	129.48 %	1.300		-0.0001 mg/L	0.00004	37.42%	1.00%
Aluminum, 7429-90-5†	-7.9	-0.010 mg/L	0.0062	-0.0001 mg/L	0.00000	0.00000	7.41%	2.32%
Antimony, 7440-36-0†	-18.3	-0.0028 mg/L	0.00143	-0.0032 mg/L	0.00076	0.00076	20.49%	9.26%
Arsenic, 7440-38-2†	26.1	0.0071 mg/L	0.00118	0.0071 mg/L	0.00118	0.00118	11.22%	4.29%
Barium, 7440-39-3†	19.9	0.0001 mg/L	0.00004	0.0001 mg/L	0.00004	0.00004	18.95%	8.80%
Beryllium, 7440-41-7†	-234.6	-0.0001 mg/L	0.00000	-0.0001 mg/L	0.00000	0.00000	2.32%	1.12%
Boron, 7440-42-8†	1998.5	0.0328 mg/L	0.00076	0.0328 mg/L	0.00076	0.00076	5.57%	2.57%
Cadmium, 7440-43-9†	-80.0	-0.0003 mg/L	0.00002	-0.0003 mg/L	0.00002	0.00002	27.54%	12.22%
Calcium, 7440-70-2†	-182.2	-0.096 mg/L	0.0197	-0.096 mg/L	0.0197	0.0197	47.95%	22.95%
Chromium, 7440-47-3†	-429.1	-0.0026 mg/L	0.00011	-0.0026 mg/L	0.00011	0.00011	18.43%	9.21%
Cobalt, 7440-48-4†	34.5	0.0006 mg/L	0.00011	0.0006 mg/L	0.00011	0.00011	27.54%	13.73%
Copper, 7440-50-8†	-1193.6	-0.0033 mg/L	0.00030	-0.0033 mg/L	0.00030	0.00030	50.33%	22.95%
Iron, 7439-89-6†	-58.8	-0.0390 mg/L	0.00438	-0.0390 mg/L	0.00438	0.00438	11.22%	5.57%
Lead, 7439-92-1†	0.8	0.0001 mg/L	0.00122	0.0001 mg/L	0.00122	0.00122	>999.9%	0.35%
Lithium, 7439-93-2†	-191.8	-0.0031 mg/L	0.00056	-0.0031 mg/L	0.00056	0.00056	275.43%	13.73%
Magnesium, 7439-95-4†	5.8	0.0183 mg/L	0.00877	0.0183 mg/L	0.00877	0.00877	47.95%	22.95%
Manganese, 7439-96-5†	92192.5	0.113 mg/L	0.0019	0.113 mg/L	0.0019	0.0019	1.66%	0.35%

000096

Molybdenum, 7439-98-7†	3.3	0.0001 mg/L	0.00013	0.0001 mg/L	0.00013	111.03%
Nickel, 7440-02-0†	-46.2	-0.0008 mg/L	0.00009	-0.0008 mg/L	0.00009	10.77%
Potassium, 7440-09-7†	674.7	0.2968 mg/L	0.01319	0.2968 mg/L	0.01319	4.44%
Selenium, 7782-49-2†	8.8	0.0049 mg/L	0.00347	0.0049 mg/L	0.00347	70.71%
Silicon, 7440-21-3†	-21.0	-0.0231 mg/L	0.00382	-0.0231 mg/L	0.00382	16.50%
Silver, 7440-22-4†	131.2	0.0004 mg/L	0.00011	0.0004 mg/L	0.00011	30.54%
Sodium, 7440-23-5†	5117.3	0.8973 mg/L	0.00989	0.8973 mg/L	0.00989	1.10%
Strontium, 7440-24-6†	-511.2	-0.0011 mg/L	0.00014	-0.0011 mg/L	0.00014	12.89%
Thallium, 7440-28-0†	20.6	0.0032 mg/L	0.00059	0.0032 mg/L	0.00059	18.32%
Tin, 7440-31-5†	-44.4	-0.0045 mg/L	0.00065	-0.0045 mg/L	0.00065	14.36%
Titanium, 7440-32-6†	124.5	0.0002 mg/L	0.00010	0.0002 mg/L	0.00010	49.67%
Vanadium, 7440-62-2†	-114.2	-0.0009 mg/L	0.00056	-0.0009 mg/L	0.00056	59.25%
Zinc, 7440-66-6†	534.4	0.0027 mg/L	0.00014	0.0027 mg/L	0.00014	5.19%
Zirconium, 7440-67-7†	-367.2	-0.0008 mg/L	0.00010	-0.0008 mg/L	0.00010	12.61%

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Sequence No.: 61

Sample ID: 417511

Analyst:

Logged In Analyst (Original) : met

Initial Sample Wt:

Dilution: 1X

Autosampler Location: 58

Date Collected: 10/13/2006 4:49:55 PM

Data Type: Reprocessed on 10/16/2006 9:34:07 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 417511

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	71011.3	101.61 %	0.097			0.10%
Ar 420.067 R	1206180.0	99.103 %	0.1579			0.16%
Scandium IS	3523903.8	123.49 %	0.812			0.66%
Yttrium, 7440-65-5A	1861170.8	122.71 %	0.728			0.59%
Yttrium, 7440-65-5R	101760.4	126.68 %	0.912			0.72%
Aluminum, 7429-90-5†	3992.7	4.821 mg/L	0.0423	4.821 mg/L	0.0423	0.88%
Antimony, 7440-36-0†	3212.1	0.4967 mg/L	0.00462	0.4967 mg/L	0.00462	0.93%
Arsenic, 7440-38-2†	1915.5	0.5347 mg/L	0.00128	0.5347 mg/L	0.00128	0.24%
Barium, 7440-39-3†	96372.6	0.5031 mg/L	0.00703	0.5031 mg/L	0.00703	1.40%
Beryllium, 7440-41-7†	2142436.3	0.4945 mg/L	0.00017	0.4945 mg/L	0.00017	0.03%
Boron, 7440-42-8†	153242.0	2.5160 mg/L	0.03730	2.5160 mg/L	0.03730	1.48%
Cadmium, 7440-43-9†	127650.2	0.5063 mg/L	0.00678	0.5063 mg/L	0.00678	1.34%
Calcium, 7440-70-2†	9448.3	4.977 mg/L	0.0438	4.977 mg/L	0.0438	0.88%
Chromium, 7440-47-3†	86509.1	0.5002 mg/L	0.00622	0.5002 mg/L	0.00622	1.24%
Cobalt, 7440-48-4†	29101.7	0.5090 mg/L	0.00353	0.5090 mg/L	0.00353	0.69%
Copper, 7440-50-8†	189897.5	0.4852 mg/L	0.00674	0.4852 mg/L	0.00674	1.39%
Iron, 7439-89-6†	7435.4	4.9412 mg/L	0.05430	4.9412 mg/L	0.05430	1.10%
Lead, 7439-92-1†	5815.7	0.5085 mg/L	0.00183	0.5085 mg/L	0.00183	0.36%
Lithium, 7439-93-2†	29769.1	0.4760 mg/L	0.00144	0.4760 mg/L	0.00144	0.30%
Magnesium, 7439-95-4†	1557.7	4.9627 mg/L	0.03277	4.9627 mg/L	0.03277	0.66%
Manganese, 7439-96-5†	423632.4	0.519 mg/L	0.0066	0.519 mg/L	0.0066	1.27%
Molybdenum, 7439-98-7†	16067.9	0.4962 mg/L	0.00266	0.4962 mg/L	0.00266	0.54%
Nickel, 7440-02-0†	29163.4	0.5061 mg/L	0.00602	0.5061 mg/L	0.00602	1.19%
Potassium, 7440-09-7†	22146.2	9.7368 mg/L	0.07253	9.7368 mg/L	0.07253	0.74%
Selenium, 7782-49-2†	902.3	0.5230 mg/L	0.00243	0.5230 mg/L	0.00243	0.47%
Silicon, 7440-21-3†	414.8	0.4526 mg/L	0.00587	0.4526 mg/L	0.00587	1.30%
Silver, 7440-22-4†	156786.1	0.4975 mg/L	0.00589	0.4975 mg/L	0.00589	1.18%
Sodium, 7440-23-5†	112305.0	19.692 mg/L	0.1455	19.692 mg/L	0.1455	0.74%
Strontium, 7440-24-6†	229901.3	0.4829 mg/L	0.00912	0.4829 mg/L	0.00912	1.89%
Thallium, 7440-28-0†	3394.0	0.5133 mg/L	0.00364	0.5133 mg/L	0.00364	0.71%
Tin, 7440-31-5†	5129.2	0.5221 mg/L	0.00336	0.5221 mg/L	0.00336	0.64%
Titanium, 7440-32-6†	288902.3	0.4986 mg/L	0.00088	0.4986 mg/L	0.00088	0.18%
Vanadium, 7440-62-2†	61522.4	0.5015 mg/L	0.00665	0.5015 mg/L	0.00665	1.33%
Zinc, 7440-66-6†	96664.7	0.4916 mg/L	0.00590	0.4916 mg/L	0.00590	1.20%
Zirconium, 7440-67-7†	930.3	0.0013 mg/L	0.00065	0.0013 mg/L	0.00065	48.30%

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Sequence No.: 62

Sample ID: 20610120401

Analyst:

Logged In Analyst (Original) : met

Initial Sample Wt:

Dilution: 1X

Autosampler Location: 59

Date Collected: 10/13/2006 4:56:51 PM

Data Type: Reprocessed on 10/16/2006 9:34:08 AM

Initial Sample Vol:

Sample Prep Vol:

000097

Mean Data: 20610120401

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	64105.0	91.726 %	0.6855			0.75%
Ar 420.067 R	1148241.7	94.343 %	0.4848			0.51%
Scandium-IS	3346718.9	117.28 %	1.206			1.03%
Yttrium, 7440-65-5A	1740802.4	114.77 %	1.133			0.99%
Yttrium, 7440-65-5R	104025.1	129.50 %	2.161			1.67%
Aluminum, 7429-90-5†	28.3	0.034 mg/L	0.0004	0.034 mg/L	0.0004	1.05%
Antimony, 7440-36-0†	-18.8	-0.0020 mg/L	0.00091	-0.0020 mg/L	0.00091	45.63%
Arsenic, 7440-38-2†	-44.2	-0.0096 mg/L	0.00231	-0.0096 mg/L	0.00231	24.16%
Barium, 7440-39-3†	81596.1	0.4254 mg/L	0.00087	0.4254 mg/L	0.00087	0.21%
Beryllium, 7440-41-7†	-782.3	-0.0002 mg/L	0.00001	-0.0002 mg/L	0.00001	9.75%
Boron, 7440-42-8†	8265.8	0.1452 mg/L	0.00235	0.1452 mg/L	0.00235	1.62%
Cadmium, 7440-43-9†	-831.8	-0.0041 mg/L	0.00003	-0.0041 mg/L	0.00003	0.84%
Calcium, 7440-70-2†	426434.0	224.8 mg/L	0.40	224.8 mg/L	0.40	0.18%
Chromium, 7440-47-3†	370.5	0.0055 mg/L	0.00012	0.0055 mg/L	0.00012	2.18%
Cobalt, 7440-48-4†	148.5	0.0022 mg/L	0.00014	0.0022 mg/L	0.00014	6.40%
Copper, 7440-50-8†	1671.1	0.0016 mg/L	0.00052	0.0016 mg/L	0.00052	33.08%
Iron, 7439-89-6†	25509.9	16.957 mg/L	0.0558	16.957 mg/L	0.0558	0.33%
Lead, 7439-92-1†	4.2	0.0003 mg/L	0.00190	0.0003 mg/L	0.00190	652.48%
Lithium, 7439-93-2†	3120.3	0.0504 mg/L	0.00063	0.0504 mg/L	0.00063	1.25%
Magnesium, 7439-95-4†	16671.6	53.105 mg/L	0.6003	53.105 mg/L	0.6003	1.13%
Manganese, 7439-96-5†	399855.0	0.490 mg/L	0.0011	0.490 mg/L	0.0011	0.22%
Molybdenum, 7439-98-7†	-21.3	-0.0011 mg/L	0.00020	-0.0011 mg/L	0.00020	18.46%
Nickel, 7440-02-0†	377.5	0.0058 mg/L	0.00023	0.0058 mg/L	0.00023	4.00%
Potassium, 7440-09-7†	180717.7	79.470 mg/L	0.1320	79.470 mg/L	0.1320	0.17%
Selenium, 7782-49-2†	-31.1	-0.0037 mg/L	0.00270	-0.0037 mg/L	0.00270	72.23%
Silicon, 7440-21-3†	8656.9	9.4743 mg/L	0.10898	9.4743 mg/L	0.10898	1.15%
Silver, 7440-22-4†	-1035.0	0.0008 mg/L	0.00026	0.0008 mg/L	0.00026	32.23%
Sodium, 7440-23-5†	2160526.0	378.87 mg/L	4.321	378.87 mg/L	4.321	1.14%
Strontium, 7440-24-6†	2026328.7	4.2527 mg/L	0.04578	4.2527 mg/L	0.04578	1.08%
Thallium, 7440-28-0†	29.3	0.0054 mg/L	0.00064	0.0054 mg/L	0.00064	11.82%
Tin, 7440-31-5†	-266.9	-0.0210 mg/L	0.00059	-0.0210 mg/L	0.00059	2.82%
Titanium, 7440-32-6†	599.3	0.0010 mg/L	0.00005	0.0010 mg/L	0.00005	5.51%
Vanadium, 7440-62-2†	-1643.6	-0.0131 mg/L	0.00079	-0.0131 mg/L	0.00079	6.03%
Zinc, 7440-66-6†	8447.7	0.0404 mg/L	0.00044	0.0404 mg/L	0.00044	1.08%
Zirconium, 7440-67-7†	-5161.6	-0.0078 mg/L	0.00005	-0.0078 mg/L	0.00005	0.63%

Sequence No.: 63

Sample ID: 417513

Analyst:

Logged In Analyst (Original) : met

Initial Sample Wt:

Dilution: 1X

Autosampler Location: 60

Date Collected: 10/13/2006 5:03:39 PM

Data Type: Reprocessed on 10/16/2006 9:34:10 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 417513

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	63833.9	91.339 %	0.1564			0.17%
Ar 420.067 R	1148648.7	94.376 %	0.1317			0.14%
Scandium-IS	3500844.1	122.68 %	0.654			0.53%
Yttrium, 7440-65-5A	1822889.2	120.18 %	0.603			0.50%
Yttrium, 7440-65-5R	104101.7	129.59 %	0.827			0.64%
Aluminum, 7429-90-5†	4191.5	5.060 mg/L	0.0140	5.060 mg/L	0.0140	0.28%
Antimony, 7440-36-0†	3426.3	0.5310 mg/L	0.00419	0.5310 mg/L	0.00419	0.79%
Arsenic, 7440-38-2†	1979.1	0.5554 mg/L	0.00469	0.5554 mg/L	0.00469	0.84%
Barium, 7440-39-3†	180356.1	0.9409 mg/L	0.00110	0.9409 mg/L	0.00110	0.12%
Beryllium, 7440-41-7†	2235379.6	0.5160 mg/L	0.00024	0.5160 mg/L	0.00024	0.05%
Boron, 7440-42-8†	172747.4	2.8455 mg/L	0.00994	2.8455 mg/L	0.00994	0.35%
Cadmium, 7440-43-9†	125961.9	0.4987 mg/L	0.00085	0.4987 mg/L	0.00085	0.17%
Calcium, 7440-70-2†	432637.1	228.0 mg/L	0.31	228.0 mg/L	0.31	0.14%
Chromium, 7440-47-3†	89239.6	0.5194 mg/L	0.00076	0.5194 mg/L	0.00076	0.15%
Cobalt, 7440-48-4†	29564.8	0.5166 mg/L	0.00410	0.5166 mg/L	0.00410	0.79%
Copper, 7440-50-8†	221716.8	0.5641 mg/L	0.00008	0.5641 mg/L	0.00008	0.01%
Iron, 7439-89-6†	33110.1	22.008 mg/L	0.1497	22.008 mg/L	0.1497	0.68%
Lead, 7439-92-1†	5841.4	0.5105 mg/L	0.00430	0.5105 mg/L	0.00430	0.84%
Lithium, 7439-93-2†	37115.5	0.5940 mg/L	0.00040	0.5940 mg/L	0.00040	0.07%

000098

Magnesium, 7439-95-4†	18291.7	58.266 mg/L	0.2537	58.266 mg/L	0.2537	0.44%
Manganese, 7439-96-5†	836225.1	1.025 mg/L	0.0005	1.025 mg/L	0.0005	0.05%
Molybdenum, 7439-98-7†	16785.8	0.5179 mg/L	0.00398	0.5179 mg/L	0.00398	0.77%
Nickel, 7440-02-0†	29388.8	0.5092 mg/L	0.00157	0.5092 mg/L	0.00157	0.31%
Potassium, 7440-09-7†	204050.5	89.728 mg/L	0.4266	89.728 mg/L	0.4266	0.48%
Selenium, 7782-49-2†	927.7	0.5519 mg/L	0.00856	0.5519 mg/L	0.00856	1.55%
Silicon, 7440-21-3†	9156.8	10.020 mg/L	0.0319	10.020 mg/L	0.0319	0.32%
Silver, 7440-22-4†	163705.1	0.5237 mg/L	0.00090	0.5237 mg/L	0.00090	0.17%
Sodium, 7440-23-5†	2253307.9	395.14 mg/L	2.056	395.14 mg/L	2.056	0.52%
Strontium, 7440-24-6†	2253797.7	4.7305 mg/L	0.00460	4.7305 mg/L	0.00460	0.10%
Thallium, 7440-28-0†	3536.7	0.5359 mg/L	0.00388	0.5359 mg/L	0.00388	0.72%
Tin, 7440-31-5†	4837.9	0.4985 mg/L	0.00407	0.4985 mg/L	0.00407	0.82%
Titanium, 7440-32-6†	301799.5	0.5208 mg/L	0.00015	0.5208 mg/L	0.00015	0.03%
Vanadium, 7440-62-2†	64459.1	0.5257 mg/L	0.00225	0.5257 mg/L	0.00225	0.43%
Zinc, 7440-66-6†	108999.2	0.5519 mg/L	0.00100	0.5519 mg/L	0.00100	0.18%
Zirconium, 7440-67-7†	-3969.1	-0.0059 mg/L	0.00040	-0.0059 mg/L	0.00040	6.76%

Sequence No.: 64

Sample ID: 417563

Analyst:

Logged In Analyst (Original) : met

Initial Sample Wt:

Dilution: 1X

Autosampler Location: 61

Date Collected: 10/13/2006 5:09:48 PM

Data Type: Reprocessed on 10/16/2006 9:34:12 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 417563

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ar 363.268 A	62979.5	90.116	%	0.3387				0.38%
Ar 420.067 R	1129968.6	92.842	%	0.0911				0.10%
Scandium-IS	3739315.6	131.04	%	1.581				1.21%
Yttrium, 7440-65-5A	1942844.2	128.09	%	1.524	"			1.19%
Yttrium, 7440-65-5R	112164.6	139.63	%	1.296				0.93%
Aluminum, 7429-90-5†	4048.6	4.888	mg/L	0.0580	4.888	mg/L	0.0580	1.19%
Antimony, 7440-36-0†	3404.6	0.5278	mg/L	0.00353	0.5278	mg/L	0.00353	0.67%
Arsenic, 7440-38-2†	1982.1	0.5561	mg/L	0.00173	0.5561	mg/L	0.00173	0.31%
Barium, 7440-39-3†	181462.1	0.9467	mg/L	0.01225	0.9467	mg/L	0.01225	1.29%
Beryllium, 7440-41-7†	2175736.2	0.5022	mg/L	0.00046	0.5022	mg/L	0.00046	0.09%
Boron, 7440-42-8†	173047.1	2.8506	mg/L	0.04935	2.8506	mg/L	0.04935	1.73%
Cadmium, 7440-43-9†	123815.8	0.4902	mg/L	0.00616	0.4902	mg/L	0.00616	1.26%
Calcium, 7440-70-2†	440053.1	231.9	mg/L	0.44	231.9	mg/L	0.44	0.19%
Chromium, 7440-47-3†	87603.3	0.5101	mg/L	0.00740	0.5101	mg/L	0.00740	1.45%
Cobalt, 7440-48-4†	29367.7	0.5132	mg/L	0.00205	0.5132	mg/L	0.00205	0.40%
Copper, 7440-50-8†	219959.8	0.5596	mg/L	0.00900	0.5596	mg/L	0.00900	1.61%
Iron, 7439-89-6†	33541.0	22.294	mg/L	0.3360	22.294	mg/L	0.3360	1.51%
Lead, 7439-92-1†	5803.7	0.5072	mg/L	0.00126	0.5072	mg/L	0.00126	0.25%
Lithium, 7439-93-2†	36450.8	0.5834	mg/L	0.00116	0.5834	mg/L	0.00116	0.20%
Magnesium, 7439-95-4†	18399.2	58.609	mg/L	1.0189	58.609	mg/L	1.0189	1.74%
Manganese, 7439-96-5†	835779.4	1.024	mg/L	0.0005	1.024	mg/L	0.0005	0.05%
Molybdenum, 7439-98-7†	16635.0	0.5133	mg/L	0.00214	0.5133	mg/L	0.00214	0.42%
Nickel, 7440-02-0†	28896.5	0.5007	mg/L	0.00661	0.5007	mg/L	0.00661	1.32%
Potassium, 7440-09-7†	204778.9	90.049	mg/L	0.3426	90.049	mg/L	0.3426	0.38%
Selenium, 7782-49-2†	940.5	0.5595	mg/L	0.00087	0.5595	mg/L	0.00087	0.15%
Silicon, 7440-21-3†	9233.0	10.104	mg/L	0.1622	10.104	mg/L	0.1622	1.61%
Silver, 7440-22-4†	162611.0	0.5202	mg/L	0.00690	0.5202	mg/L	0.00690	1.33%
Sodium, 7440-23-5†	2252104.2	394.93	mg/L	1.841	394.93	mg/L	1.841	0.47%
Strontium, 7440-24-6†	2272864.3	4.7704	mg/L	0.00811	4.7704	mg/L	0.00811	0.17%
Thallium, 7440-28-0†	3529.0	0.5347	mg/L	0.00256	0.5347	mg/L	0.00256	0.48%
Tin, 7440-31-5†	4814.9	0.4963	mg/L	0.00311	0.4963	mg/L	0.00311	0.63%
Titanium, 7440-32-6†	293734.7	0.5069	mg/L	0.00027	0.5069	mg/L	0.00027	0.05%
Vanadium, 7440-62-2†	63765.4	0.5200	mg/L	0.00929	0.5200	mg/L	0.00929	1.79%
Zinc, 7440-66-6†	107865.4	0.5461	mg/L	0.00629	0.5461	mg/L	0.00629	1.15%
Zirconium, 7440-67-7†	-4212.3	-0.0064	mg/L	0.00003	-0.0064	mg/L	0.00003	0.54%

Sequence No.: 65

Sample ID: 417900

Analyst:

Logged In Analyst (Original) : met

Initial Sample Wt:

Autosampler Location: 62

Date Collected: 10/13/2006 5:15:59 PM

Data Type: Reprocessed on 10/16/2006 9:34:14 AM

Initial Sample Vol:

000099

Dilution: 1X

Sample Prep Vol:

Mean Data: 417900

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	62739.0	89.772 %	0.6989			0.78%
Ar 420.067 R	1117844.7	91.846 %	0.4342			0.47%
Scandium-IS	3915281.5	137.21 %	1.228			0.90%
Yttrium,7440-65-5A	2033208.3	134.05 %	1.134			0.85%
Yttrium,7440-65-5R	119327.0	148.55 %	1.204			0.81%
Aluminum,7429-90-5†	3823.4	4.616 mg/L	0.0401	4.616 mg/L	0.0401	0.87%
Antimony,7440-36-0†	3206.5	0.4971 mg/L	0.00278	0.4971 mg/L	0.00278	0.56%
Arsenic,7440-38-2†	1864.9	0.5233 mg/L	0.00159	0.5233 mg/L	0.00159	0.30%
Barium,7440-39-3†	173334.1	0.9043 mg/L	0.00822	0.9043 mg/L	0.00822	0.91%
Beryllium,7440-41-7†	2059972.3	0.4755 mg/L	0.00049	0.4755 mg/L	0.00049	0.10%
Boron,7440-42-8†	165918.1	2.7332 mg/L	0.01785	2.7332 mg/L	0.01785	0.65%
Cadmium,7440-43-9†	117073.9	0.4635 mg/L	0.00498	0.4635 mg/L	0.00498	1.07%
Calcium,7440-70-2†	430453.8	226.9 mg/L	0.39	226.9 mg/L	0.39	0.17%
Chromium,7440-47-3†	82744.2	0.4819 mg/L	0.00381	0.4819 mg/L	0.00381	0.79%
Cobalt,7440-48-4†	27436.2	0.4794 mg/L	0.00243	0.4794 mg/L	0.00243	0.51%
Copper,7440-50-8†	207118.3	0.5268 mg/L	0.00443	0.5268 mg/L	0.00443	0.84%
Iron,7439-89-6†	32141.1	21.364 mg/L	0.2988	21.364 mg/L	0.2988	1.40%
Lead,7439-92-1†	5434.0	0.4749 mg/L	0.00195	0.4749 mg/L	0.00195	0.41%
Lithium,7439-93-2†	34395.7	0.5505 mg/L	0.00052	0.5505 mg/L	0.00052	0.09%
Magnesium,7439-95-4†	17611.5	56.100 mg/L	0.3614	56.100 mg/L	0.3614	0.64%
Manganese,7439-96-5†	787311.0	0.965 mg/L	0.0011	0.965 mg/L	0.0011	0.12%
Molybdenum,7439-98-7†	15667.7	0.4834 mg/L	0.00239	0.4834 mg/L	0.00239	0.49%
Nickel,7440-02-0†	27334.8	0.4736 mg/L	0.00386	0.4736 mg/L	0.00386	0.82%
Potassium,7440-09-7†	196728.6	86.509 mg/L	0.2945	86.509 mg/L	0.2945	0.34%
Selenium,7782-49-2†	894.3	0.5323 mg/L	0.00269	0.5323 mg/L	0.00269	0.51%
Silicon,7440-21-3†	9333.2	10.215 mg/L	0.1014	10.215 mg/L	0.1014	0.99%
Silver,7440-22-4†	154351.5	0.4938 mg/L	0.00352	0.4938 mg/L	0.00352	0.71%
Sodium,7440-23-5†	2152481.9	377.46 mg/L	0.230	377.46 mg/L	0.230	0.06%
Strontium,7440-24-6†	2201338.2	4.6203 mg/L	0.00156	4.6203 mg/L	0.00156	0.03%
Thallium,7440-28-0†	3296.9	0.4996 mg/L	0.00280	0.4996 mg/L	0.00280	0.56%
Tin,7440-31-5†	4563.3	0.4705 mg/L	0.00266	0.4705 mg/L	0.00266	0.57%
Titanium,7440-32-6†	282019.2	0.4867 mg/L	0.00014	0.4867 mg/L	0.00014	0.03%
Vanadium,7440-62-2†	60228.3	0.4912 mg/L	0.00224	0.4912 mg/L	0.00224	0.46%
Zinc,7440-66-6†	102349.2	0.5181 mg/L	0.00462	0.5181 mg/L	0.00462	0.89%
Zirconium,7440-67-7†	-4089.7	-0.0062 mg/L	0.00010	-0.0062 mg/L	0.00010	1.70%

Sequence No.: 66

Autosampler Location: 63

Sample ID: 417901

Date Collected: 10/13/2006 5:22:08 PM

Analyst:

Data Type: Reprocessed on 10/16/2006 9:34:16 AM

Logged In Analyst (Original) : met

Initial Sample Vol:

Initial Sample Wt:

Dilution: 5X

Sample Prep Vol:

Mean Data: 417901

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	67745.8	96.936 %	0.0807			0.08%
Ar 420.067 R	1175683.3	96.598 %	0.4554			0.47%
Scandium-IS	3889281.5	136.30 %	1.151			0.84%
Yttrium,7440-65-5A	2040390.9	134.52 %	1.064			0.79%
Yttrium,7440-65-5R	109587.6	136.42 %	6.128			4.49%
Aluminum,7429-90-5†	-13.4	-0.016 mg/L	0.0045	-0.081 mg/L	0.0226	27.89%
Antimony,7440-36-0†	-26.3	-0.0039 mg/L	0.00088	-0.0195 mg/L	0.00440	22.53%
Arsenic,7440-38-2†	9.9	0.0031 mg/L	0.00126	0.0154 mg/L	0.00631	41.00%
Barium,7440-39-3†	16712.0	0.0871 mg/L	0.00096	0.4357 mg/L	0.00480	1.10%
Beryllium,7440-41-7†	-261.8	-0.0001 mg/L	0.00001	-0.0003 mg/L	0.00007	24.15%
Boron,7440-42-8†	4611.0	0.0776 mg/L	0.00216	0.3879 mg/L	0.01081	2.79%
Cadmium,7440-43-9†	-279.3	-0.0013 mg/L	0.00005	-0.0064 mg/L	0.00027	4.28%
Calcium,7440-70-2†	85518.6	45.07 mg/L	0.165	225.4 mg/L	0.83	0.37%
Chromium,7440-47-3†	-202.9	-0.0005 mg/L	0.00011	-0.0024 mg/L	0.00055	22.71%
Cobalt,7440-48-4†	82.6	0.0014 mg/L	0.00009	0.0069 mg/L	0.00046	6.72%
Copper,7440-50-8†	-634.4	-0.0022 mg/L	0.00015	-0.0109 mg/L	0.00075	6.85%
Iron,7439-89-6†	5236.5	3.4809 mg/L	0.04662	17.404 mg/L	0.2331	1.34%

000100

Lead, 7439-92-1†	3.7	0.0003 mg/L	0.00135	0.0015 mg/L	0.00673	442.85%
Lithium, 7439-93-2†	343.9	0.0056 mg/L	0.00078	0.0280 mg/L	0.00389	13.89%
Magnesium, 7439-95-4†	3409.4	10.860 mg/L	0.1092	54.301 mg/L	0.5458	1.01%
Manganese, 7439-96-5†	80643.8	0.099 mg/L	0.0003	0.494 mg/L	0.0015	0.31%
Molybdenum, 7439-98-7†	51.6	0.0015 mg/L	0.00022	0.0075 mg/L	0.00110	14.58%
Nickel, 7440-02-0†	47.3	0.0007 mg/L	0.00018	0.0033 mg/L	0.00088	26.41%
Potassium, 7440-09-7†	34782.5	15.295 mg/L	0.0955	76.477 mg/L	0.4777	0.62%
Selenium, 7782-49-2†	0.5	0.0032 mg/L	0.00315	0.0159 mg/L	0.01574	98.90%
Silicon, 7440-21-3†	1705.4	1.8662 mg/L	0.02806	9.3312 mg/L	0.14028	1.50%
Silver, 7440-22-4†	-91.3	0.0005 mg/L	0.00003	0.0025 mg/L	0.00017	6.90%
Sodium, 7440-23-5†	441354.5	77.396 mg/L	0.6073	386.98 mg/L	3.036	0.78%
Strontium, 7440-24-6†	402848.3	0.8455 mg/L	0.00080	4.2273 mg/L	0.00398	0.09%
Thallium, 7440-28-0†	33.5	0.0052 mg/L	0.00057	0.0262 mg/L	0.00285	10.89%
Tin, 7440-31-5†	-125.1	-0.0115 mg/L	0.00043	-0.0575 mg/L	0.00215	3.74%
Titanium, 7440-32-6†	318.5	0.0005 mg/L	0.00007	0.0027 mg/L	0.00034	12.59%
Vanadium, 7440-62-2†	-910.9	-0.0074 mg/L	0.00018	-0.0368 mg/L	0.00092	2.49%
Zinc, 7440-66-6†	1753.3	0.0084 mg/L	0.00045	0.0420 mg/L	0.00224	5.34%
Zirconium, 7440-67-7†	-3155.1	-0.0059 mg/L	0.00009	-0.0295 mg/L	0.00046	1.58%

Sequence No.: 67

Autosampler Location: 64

Sample ID: 20610120817

Date Collected: 10/13/2006 5:28:34 PM

Analyst:

Data Type: Reprocessed on 10/16/2006 9:34:18 AM

Logged In Analyst (Original) : met

Initial Sample Vol:

Initial Sample Wt:

Dilution: 1X

Sample Prep Vol:

Mean Data: 20610120817

Analyte	Mean Corrected	Intensity	Calib	Std.Dev.	Sample	Std.Dev.	RSD
			Conc.		Conc.		
Ar 363.268 A	71174.7	101.84	%	0.357			0.35%
Ar 420.067 R	1198645.4	98.484	%	0.4365			0.44%
Scandium-1S	3654379.5	128.06	%	2.080			1.62%
Yttrium, 7440-65-5A	1939962.9	127.90	%	2.075			1.62%
Yttrium, 7440-65-5R	107068.7	133.29	%	1.458			1.09%
Aluminum, 7429-90-5†	-7.1	-0.009	mg/L	0.0086	-0.009 mg/L	0.0086	100.65%
Antimony, 7440-36-0†	-21.2	-0.0033	mg/L	0.00036	-0.0033 mg/L	0.00036	10.82%
Arsenic, 7440-38-2†	32.2	0.0087	mg/L	0.00187	0.0087 mg/L	0.00187	21.45%
Barium, 7440-39-3†	51.0	0.0003	mg/L	0.00004	0.0003 mg/L	0.00004	14.20%
Beryllium, 7440-41-7†	-63.1	0.0000	mg/L	0.00001	0.0000 mg/L	0.00001	39.47%
Boron, 7440-42-8†	2773.4	0.0455	mg/L	0.00037	0.0455 mg/L	0.00037	0.82%
Cadmium, 7440-43-9†	-139.7	-0.0005	mg/L	0.00003	-0.0005 mg/L	0.00003	5.05%
Calcium, 7440-70-2†	-55.5	-0.029	mg/L	0.0029	-0.029 mg/L	0.0029	9.91%
Chromium, 7440-47-3†	-437.5	-0.0025	mg/L	0.00013	-0.0025 mg/L	0.00013	5.15%
Cobalt, 7440-48-4†	50.7	0.0009	mg/L	0.00013	0.0009 mg/L	0.00013	14.70%
Copper, 7440-50-8†	-1230.2	-0.0032	mg/L	0.00030	-0.0032 mg/L	0.00030	9.51%
Iron, 7439-89-6†	-60.0	-0.0399	mg/L	0.00240	-0.0399 mg/L	0.00240	6.03%
Lead, 7439-92-1†	4.8	0.0004	mg/L	0.00145	0.0004 mg/L	0.00145	335.79%
Lithium, 7439-93-2†	-150.2	-0.0024	mg/L	0.00041	-0.0024 mg/L	0.00041	16.87%
Magnesium, 7439-95-4†	4.7	0.0150	mg/L	0.01060	0.0150 mg/L	0.01060	70.77%
Manganese, 7439-96-5†	-518.7	-0.001	mg/L	0.00000	-0.001 mg/L	0.00000	1.85%
Molybdenum, 7439-98-7†	4.5	0.0001	mg/L	0.00005	0.0001 mg/L	0.00005	32.35%
Nickel, 7440-02-0†	-45.6	-0.0008	mg/L	0.00023	-0.0008 mg/L	0.00023	28.79%
Potassium, 7440-09-7†	399.8	0.1758	mg/L	0.01077	0.1758 mg/L	0.01077	6.12%
Selenium, 7782-49-2†	13.2	0.0076	mg/L	0.00107	0.0076 mg/L	0.00107	14.14%
Silicon, 7440-21-3†	-12.5	-0.0137	mg/L	0.00294	-0.0137 mg/L	0.00294	21.48%
Silver, 7440-22-4†	120.4	0.0003	mg/L	0.00013	0.0003 mg/L	0.00013	38.73%
Sodium, 7440-23-5†	3546.9	0.6220	mg/L	0.01085	0.6220 mg/L	0.01085	1.74%
Strontium, 7440-24-6†	-19.3	0.0000	mg/L	0.00010	0.0000 mg/L	0.00010	262.89%
Thallium, 7440-28-0†	26.3	0.0040	mg/L	0.00168	0.0040 mg/L	0.00168	42.47%
Tin, 7440-31-5†	-34.8	-0.0035	mg/L	0.00101	-0.0035 mg/L	0.00101	28.37%
Titanium, 7440-32-6†	101.1	0.0002	mg/L	0.00012	0.0002 mg/L	0.00012	69.98%
Vanadium, 7440-62-2†	-182.2	-0.0015	mg/L	0.00033	-0.0015 mg/L	0.00033	22.35%
Zinc, 7440-66-6†	626.6	0.0032	mg/L	0.00010	0.0032 mg/L	0.00010	3.15%
Zirconium, 7440-67-7†	-512.5	-0.0010	mg/L	0.00002	-0.0010 mg/L	0.00002	1.45%

Sequence No.: 68

Autosampler Location: 65

Sample ID: 20610120402

Date Collected: 10/13/2006 5:35:21 PM

Analyst:

Data Type: Reprocessed on 10/16/2006 9:34:20 AM

000101

Logged In Analyst (Original) : met  
 Initial Sample Wt:  
 Dilution: 1X

Initial Sample Vol:  
 Sample Prep Vol:

Mean Data: 20610120402

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	67028.4	95.910 %	0.1404			0.15%
Ar 420.067 R	1185695.7	97.420 %	0.4360			0.45%
Scandium-IS	3450595.1	120.92 %	0.677			0.56%
Yttrium, 7440-65-5A	1816670.6	119.77 %	0.688			0.57%
Yttrium, 7440-65-5R	100662.7	125.31 %	1.383			1.10%
Aluminum, 7429-90-5†	15.0	0.018 mg/L	0.0006	0.018 mg/L	0.0006	3.54%
Antimony, 7440-36-0†	-29.4	-0.0043 mg/L	0.00133	-0.0043 mg/L	0.00133	31.31%
Arsenic, 7440-38-2†	11.2	0.0038 mg/L	0.00135	0.0038 mg/L	0.00135	35.49%
Barium, 7440-39-3†	6902.8	0.0357 mg/L	0.00022	0.0357 mg/L	0.00022	0.62%
Beryllium, 7440-41-7†	-422.5	-0.0001 mg/L	0.00000	-0.0001 mg/L	0.00000	4.19%
Boron, 7440-42-8†	5777.9	0.0982 mg/L	0.00060	0.0982 mg/L	0.00060	0.62%
Cadmium, 7440-43-9†	-582.9	-0.0026 mg/L	0.00002	-0.0026 mg/L	0.00002	0.94%
Calcium, 7440-70-2†	154438.7	81.40 mg/L	0.059	81.40 mg/L	0.059	0.07%
Chromium, 7440-47-3†	18.0	0.0013 mg/L	0.00006	0.0013 mg/L	0.00006	4.50%
Cobalt, 7440-48-4†	22.5	0.0003 mg/L	0.00011	0.0003 mg/L	0.00011	39.91%
Copper, 7440-50-8†	237.0	-0.0001 mg/L	0.00028	-0.0001 mg/L	0.00028	230.00%
Iron, 7439-89-6†	9347.1	6.2132 mg/L	0.02567	6.2132 mg/L	0.02567	0.41%
Lead, 7439-92-1†	42.2	0.0037 mg/L	0.00087	0.0037 mg/L	0.00087	23.80%
Lithium, 7439-93-2†	-10.4	0.0000 mg/L	0.00080	0.0000 mg/L	0.00080	>999.9%
Magnesium, 7439-95-4†	7140.3	22.744 mg/L	0.1141	22.744 mg/L	0.1141	0.50%
Manganese, 7439-96-5†	14790.8	0.018 mg/L	0.0001	0.018 mg/L	0.0001	0.58%
Molybdenum, 7439-98-7†	11.0	0.0002 mg/L	0.00049	0.0002 mg/L	0.00049	299.51%
Nickel, 7440-02-0†	-12.6	-0.0005 mg/L	0.00026	-0.0005 mg/L	0.00026	55.38%
Potassium, 7440-09-7†	4105.5	1.8054 mg/L	0.01810	1.8054 mg/L	0.01810	1.00%
Selenium, 7782-49-2†	-13.5	-0.0025 mg/L	0.00194	-0.0025 mg/L	0.00194	77.14%
Silicon, 7440-21-3†	4895.8	5.3616 mg/L	0.03044	5.3616 mg/L	0.03044	0.57%
Silver, 7440-22-4†	-408.8	0.0002 mg/L	0.00010	0.0002 mg/L	0.00010	39.86%
Sodium, 7440-23-5†	42552.9	7.4593 mg/L	0.03789	7.4593 mg/L	0.03789	0.51%
Strontium, 7440-24-6†	1250361.3	2.6253 mg/L	0.00228	2.6253 mg/L	0.00228	0.09%
Thallium, 7440-28-0†	20.5	0.0033 mg/L	0.00033	0.0033 mg/L	0.00033	10.04%
Tin, 7440-31-5†	-205.8	-0.0187 mg/L	0.00096	-0.0187 mg/L	0.00096	5.14%
Titanium, 7440-32-6†	936.7	0.0016 mg/L	0.00011	0.0016 mg/L	0.00011	6.60%
Vanadium, 7440-62-2†	-649.2	-0.0050 mg/L	0.00077	-0.0050 mg/L	0.00077	15.28%
Zinc, 7440-66-6†	219860.9	1.1268 mg/L	0.00378	1.1268 mg/L	0.00378	0.34%
Zirconium, 7440-67-7†	-4115.3	-0.0074 mg/L	0.00007	-0.0074 mg/L	0.00007	0.99%

Sequence No.: 69  
 Sample ID: 20610120403  
 Analyst:

Autosampler Location: 66  
 Date Collected: 10/13/2006 5:41:47 PM  
 Data Type: Reprocessed on 10/16/2006 9:34:22 AM

Logged In Analyst (Original) : met  
 Initial Sample Wt:  
 Dilution: 1X

Initial Sample Vol:  
 Sample Prep Vol:

Mean Data: 20610120403

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	67636.2	96.779 %	0.0858			0.09%
Ar 420.067 R	1195556.7	98.231 %	0.3495			0.36%
Scandium-IS	3423026.3	119.96 %	0.537			0.45%
Yttrium, 7440-65-5A	1804559.6	118.98 %	0.647			0.54%
Yttrium, 7440-65-5R	99068.2	123.33 %	0.857			0.70%
Aluminum, 7429-90-5†	-14.6	-0.017 mg/L	0.00054	-0.017 mg/L	0.00054	30.89%
Antimony, 7440-36-0†	-13.6	-0.0021 mg/L	0.00159	-0.0021 mg/L	0.00159	73.92%
Arsenic, 7440-38-2†	25.9	0.0073 mg/L	0.00177	0.0073 mg/L	0.00177	24.33%
Barium, 7440-39-3†	4860.5	0.0252 mg/L	0.00031	0.0252 mg/L	0.00031	1.24%
Beryllium, 7440-41-7†	-417.8	-0.0001 mg/L	0.00001	-0.0001 mg/L	0.00001	11.00%
Boron, 7440-42-8†	11386.0	0.1866 mg/L	0.00079	0.1866 mg/L	0.00079	0.42%
Cadmium, 7440-43-9†	-659.8	-0.0026 mg/L	0.00001	-0.0026 mg/L	0.00001	0.55%
Calcium, 7440-70-2†	117319.1	61.83 mg/L	0.167	61.83 mg/L	0.167	0.27%
Chromium, 7440-47-3†	395.8	0.0003 mg/L	0.00003	0.0003 mg/L	0.00003	10.04%
Cobalt, 7440-48-4†	9.1	0.0002 mg/L	0.00015	0.0002 mg/L	0.00015	70.80%

000102

Copper, 7440-50-8†	164.7	-0.0003 mg/L	0.00011	-0.0003 mg/L	0.00011	37.22%
Iron, 7439-89-6†	213.0	0.1416 mg/L	0.00058	0.1416 mg/L	0.00058	0.41%
Lead, 7439-92-1†	-5.7	-0.0003 mg/L	0.00034	-0.0003 mg/L	0.00034	125.29%
Lithium, 7439-93-2†	1083.9	0.0175 mg/L	0.00069	0.0175 mg/L	0.00069	3.94%
Magnesium, 7439-95-4†	11248.6	35.825 mg/L	0.0808	35.825 mg/L	0.0808	0.23%
Manganese, 7439-96-5†	876.0	0.001 mg/L	0.0000	0.001 mg/L	0.0000	1.94%
Molybdenum, 7439-98-7†	55.0	0.0015 mg/L	0.00017	0.0015 mg/L	0.00017	10.86%
Nickel, 7440-02-0†	19.1	0.0003 mg/L	0.00016	0.0003 mg/L	0.00016	50.02%
Potassium, 7440-09-7†	9508.9	4.1820 mg/L	0.01160	4.1820 mg/L	0.01160	0.28%
Selenium, 7782-49-2†	-0.7	0.0002 mg/L	0.00295	0.0002 mg/L	0.00295	>999.9%
Silicon, 7440-21-3†	5054.4	5.5284 mg/L	0.04703	5.5284 mg/L	0.04703	0.85%
Silver, 7440-22-4†	333.4	0.0004 mg/L	0.00004	0.0004 mg/L	0.00004	9.96%
Sodium, 7440-23-5†	69844.4	12.245 mg/L	0.0346	12.245 mg/L	0.0346	0.28%
Strontium, 7440-24-6†	1426559.3	2.9959 mg/L	0.03783	2.9959 mg/L	0.03783	1.26%
Thallium, 7440-28-0†	19.2	0.0028 mg/L	0.00170	0.0028 mg/L	0.00170	60.56%
Tin, 7440-31-5†	-195.9	-0.0181 mg/L	0.00114	-0.0181 mg/L	0.00114	6.29%
Titanium, 7440-32-6†	159.0	0.0003 mg/L	0.00021	0.0003 mg/L	0.00021	76.17%
Vanadium, 7440-62-2†	-1893.5	-0.0141 mg/L	0.00046	-0.0141 mg/L	0.00046	3.26%
Zinc, 7440-66-6†	3263.0	0.0160 mg/L	0.00056	0.0160 mg/L	0.00056	3.49%
Zirconium, 7440-67-7†	-3745.8	-0.0069 mg/L	0.00003	-0.0069 mg/L	0.00003	0.49%

Sequence No.: 70

Autosampler Location: 7

Sample ID: 1800

Date Collected: 10/13/2006 5:48:25 PM

Analyst:

Data Type: Reprocessed on 10/16/2006 9:34:24 AM

Logged In Analyst (Original) : met

Initial Sample Vol:

Initial Sample Wt:

Dilution:

Sample Prep Vol:

## Mean Data: 1800

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	70378.7	100.70 %	0.479			0.48%
Ar 420.067 R	1196307.4	98.292 %	0.1593			0.16%
Scandium-IS	3436839.1	120.44 %	1.272			1.06%
Yttrium, 7440-65-5A	1812733.1	119.51 %	1.242			1.04%
Yttrium, 7440-65-5R	100759.6	125.43 %	1.297			1.03%
Aluminum, 7429-90-5†	3936.4	4.753 mg/L	0.0464	4.753 mg/L	0.0464	0.98%
QC value within limits for Aluminum, 7429-90-5		Recovery = 95.05%				
Antimony, 7440-36-0†	3184.6	0.4924 mg/L	0.00671	0.4924 mg/L	0.00671	1.36%
QC value within limits for Antimony, 7440-36-0		Recovery = 98.48%				
Arsenic, 7440-38-2†	1907.1	0.5324 mg/L	0.00568	0.5324 mg/L	0.00568	1.07%
QC value within limits for Arsenic, 7440-38-2		Recovery = 106.47%				
Barium, 7440-39-3†	95773.0	0.4999 mg/L	0.00391	0.4999 mg/L	0.00391	0.78%
QC value within limits for Barium, 7440-39-3		Recovery = 99.99%				
Beryllium, 7440-41-7†	2169863.6	0.5008 mg/L	0.00065	0.5008 mg/L	0.00065	0.13%
QC value within limits for Beryllium, 7440-41-7		Recovery = 100.17%				
Boron, 7440-42-8†	153041.3	2.5126 mg/L	0.02627	2.5126 mg/L	0.02627	1.05%
QC value within limits for Boron, 7440-42-8		Recovery = 100.51%				
Cadmium, 7440-43-9†	126497.6	0.5017 mg/L	0.00385	0.5017 mg/L	0.00385	0.77%
QC value within limits for Cadmium, 7440-43-9		Recovery = 100.34%				
Calcium, 7440-70-2†	9536.5	5.024 mg/L	0.0344	5.024 mg/L	0.0344	0.68%
QC value within limits for Calcium, 7440-70-2		Recovery = 100.48%				
Chromium, 7440-47-3†	86556.2	0.5004 mg/L	0.00478	0.5004 mg/L	0.00478	0.96%
QC value within limits for Chromium, 7440-47-3		Recovery = 100.08%				
Cobalt, 7440-48-4†	28868.4	0.5049 mg/L	0.00617	0.5049 mg/L	0.00617	1.22%
QC value within limits for Cobalt, 7440-48-4		Recovery = 100.98%				
Copper, 7440-50-8†	191239.3	0.4887 mg/L	0.00319	0.4887 mg/L	0.00319	0.65%
QC value within limits for Copper, 7440-50-8		Recovery = 97.74%				
Iron, 7439-89-6†	7377.0	4.9024 mg/L	0.04210	4.9024 mg/L	0.04210	0.86%
QC value within limits for Iron, 7439-89-6		Recovery = 98.05%				
Lead, 7439-92-1†	5784.1	0.5057 mg/L	0.00610	0.5057 mg/L	0.00610	1.21%
QC value within limits for Lead, 7439-92-1		Recovery = 101.15%				
Lithium, 7439-93-2†	29877.4	0.4778 mg/L	0.00073	0.4778 mg/L	0.00073	0.15%
QC value within limits for Lithium, 7439-93-2		Recovery = 95.56%				
Magnesium, 7439-95-4†	1537.8	4.8993 mg/L	0.04086	4.8993 mg/L	0.04086	0.83%
QC value within limits for Magnesium, 7439-95-4		Recovery = 97.99%				
Manganese, 7439-96-5†	410748.2	0.503 mg/L	0.0039	0.503 mg/L	0.0039	0.78%
QC value within limits for Manganese, 7439-96-5		Recovery = 100.64%				
Molybdenum, 7439-98-7†	16074.5	0.4964 mg/L	0.00581	0.4964 mg/L	0.00581	1.17%

000103

QC value within limits for Molybdenum,7439-98-7 Recovery = 99.28%  
 Nickel,7440-02-0† 28787.8 0.4996 mg/L 0.00313 0.4996 mg/L 0.00313 0.63%  
   QC value within limits for Nickel,7440-02-0 Recovery = 99.91%  
 Potassium,7440-09-7† 22047.7 9.6935 mg/L 0.05419 9.6935 mg/L 0.05419 0.56%  
   QC value within limits for Potassium,7440-09-7 Recovery = 96.93%  
 Selenium,7782-49-2† 878.4 0.5092 mg/L 0.00538 0.5092 mg/L 0.00538 1.06%  
   QC value within limits for Selenium,7782-49-2 Recovery = 101.84%  
 Silicon,7440-21-3† 423.6 0.4624 mg/L 0.00301 0.4624 mg/L 0.00301 0.65%  
   QC value within limits for Silicon,7440-21-3 Recovery = 92.47%  
 Silver,7440-22-4† 158028.0 0.5013 mg/L 0.00348 0.5013 mg/L 0.00348 0.69%  
   QC value within limits for Silver,7440-22-4 Recovery = 100.27%  
 Sodium,7440-23-5† 109491.0 19.199 mg/L 0.0052 19.199 mg/L 0.0052 0.03%  
   QC value within limits for Sodium,7440-23-5 Recovery = 95.99%  
 Strontium,7440-24-6† 229248.3 0.4815 mg/L 0.00383 0.4815 mg/L 0.00383 0.80%  
   QC value within limits for Strontium,7440-24-6 Recovery = 96.30%  
 Thallium,7440-28-0† 3358.3 0.5079 mg/L 0.00538 0.5079 mg/L 0.00538 1.06%  
   QC value within limits for Thallium,7440-28-0 Recovery = 101.58%  
 Tin,7440-31-5† 5025.7 0.5116 mg/L 0.00628 0.5116 mg/L 0.00628 1.23%  
   QC value within limits for Tin,7440-31-5 Recovery = 102.31%  
 Titanium,7440-32-6† 289970.9 0.5005 mg/L 0.00012 0.5005 mg/L 0.00012 0.02%  
   QC value within limits for Titanium,7440-32-6 Recovery = 100.10%  
 Vanadium,7440-62-2† 61306.5 0.4997 mg/L 0.00451 0.4997 mg/L 0.00451 0.90%  
   QC value within limits for Vanadium,7440-62-2 Recovery = 99.94%  
 Zinc,7440-66-6† 97920.5 0.4981 mg/L 0.00291 0.4981 mg/L 0.00291 0.58%  
   QC value within limits for Zinc,7440-66-6 Recovery = 99.62%  
 Zirconium,7440-67-7† 241250.8 0.4929 mg/L 0.00420 0.4929 mg/L 0.00420 0.85%  
   QC value within limits for Zirconium,7440-67-7 Recovery = 98.59%  
 All analyte(s) passed QC.

Sequence No.: 71

Autosampler Location: 1

Sample ID: 1900

Date Collected: 10/13/2006 5:55:19 PM

Analyst:

Data Type: Reprocessed on 10/16/2006 9:34:26 AM

Logged In Analyst (Original) : met

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

## Mean Data: 1900

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	70891.8	101.44 %	0.461			0.45%
Ar 420.067 R	1204900.9	98.998 %	0.1395			0.14%
Scandium-IS	3470839.5	121.63 %	9.201			7.57%
Yttrium,7440-65-5A	1853383.7	122.19 %	9.499			7.77%
Yttrium,7440-65-5R	95025.0	118.29 %	1.008			0.85%
Aluminum,7429-90-5†	-13.4	-0.016 mg/L	0.0071	-0.016 mg/L	0.0071	43.93%
QC value within limits for Aluminum,7429-90-5 Recovery = Not calculated						
Antimony,7440-36-0†	-14.3	-0.0022 mg/L	0.00016	-0.0022 mg/L	0.00016	7.39%
QC value within limits for Antimony,7440-36-0 Recovery = Not calculated						
Arsenic,7440-38-2†	16.2	0.0043 mg/L	0.00253	0.0043 mg/L	0.00253	58.54%
QC value within limits for Arsenic,7440-38-2 Recovery = Not calculated						
Barium,7440-39-3†	30.5	0.0002 mg/L	0.00003	0.0002 mg/L	0.00003	19.90%
QC value within limits for Barium,7440-39-3 Recovery = Not calculated						
Beryllium,7440-41-7†	-16.1	0.0000 mg/L	0.00001	0.0000 mg/L	0.00001	500.63%
QC value within limits for Beryllium,7440-41-7 Recovery = Not calculated						
Boron,7440-42-8†	3041.5	0.0499 mg/L	0.00298	0.0499 mg/L	0.00298	5.98%
QC value within limits for Boron,7440-42-8 Recovery = Not calculated						
Cadmium,7440-43-9†	-91.1	-0.0004 mg/L	0.00019	-0.0004 mg/L	0.00019	54.47%
QC value within limits for Cadmium,7440-43-9 Recovery = Not calculated						
Calcium,7440-70-2†	-84.2	-0.044 mg/L	0.0070	-0.044 mg/L	0.0070	15.78%
QC value within limits for Calcium,7440-70-2 Recovery = Not calculated						
Chromium,7440-47-3†	-333.1	-0.0019 mg/L	0.00026	-0.0019 mg/L	0.00026	13.65%
QC value within limits for Chromium,7440-47-3 Recovery = Not calculated						
Cobalt,7440-48-4†	50.1	0.0009 mg/L	0.00032	0.0009 mg/L	0.00032	36.53%
QC value within limits for Cobalt,7440-48-4 Recovery = Not calculated						
Copper,7440-50-8†	-1122.2	-0.0029 mg/L	0.00167	-0.0029 mg/L	0.00167	58.01%
QC value within limits for Copper,7440-50-8 Recovery = Not calculated						
Iron,7439-89-6†	-47.6	-0.0317 mg/L	0.00280	-0.0317 mg/L	0.00280	8.85%
QC value within limits for Iron,7439-89-6 Recovery = Not calculated						
Lead,7439-92-1†	2.0	0.0002 mg/L	0.00102	0.0002 mg/L	0.00102	568.71%

000104

QC value within limits for Lead, 7439-92-1 Recovery = Not calculated  
Lithium, 7439-93-2† -37.5 -0.0006 mg/L 0.00028 -0.0006 mg/L 0.00028 47.17%  
QC value within limits for Lithium, 7439-93-2 Recovery = Not calculated  
Magnesium, 7439-95-4† 5.8 0.0185 mg/L 0.01873 0.0185 mg/L 0.01873 101.37%  
QC value within limits for Magnesium, 7439-95-4 Recovery = Not calculated  
Manganese, 7439-96-5† -226.9 0.000 mg/L 0.0001 0.000 mg/L 0.0001 40.33%  
QC value within limits for Manganese, 7439-96-5 Recovery = Not calculated  
Molybdenum, 7439-98-7† 10.3 0.0003 mg/L 0.00029 0.0003 mg/L 0.00029 90.99%  
QC value within limits for Molybdenum, 7439-98-7 Recovery = Not calculated  
Nickel, 7440-02-0† -34.9 -0.0006 mg/L 0.00014 -0.0006 mg/L 0.00014 23.55%  
QC value within limits for Nickel, 7440-02-0 Recovery = Not calculated  
Potassium, 7440-09-7† 136.8 0.0602 mg/L 0.01417 0.0602 mg/L 0.01417 23.55%  
QC value within limits for Potassium, 7440-09-7 Recovery = Not calculated  
Selenium, 7782-49-2† 10.2 0.0059 mg/L 0.00255 0.0059 mg/L 0.00255 43.29%  
QC value within limits for Selenium, 7782-49-2 Recovery = Not calculated  
Silicon, 7440-21-3† -13.7 -0.0151 mg/L 0.00291 -0.0151 mg/L 0.00291 19.26%  
QC value within limits for Silicon, 7440-21-3 Recovery = Not calculated  
Silver, 7440-22-4† 151.9 0.0004 mg/L 0.00020 0.0004 mg/L 0.00020 47.25%  
QC value within limits for Silver, 7440-22-4 Recovery = Not calculated  
Sodium, 7440-23-5† 1513.8 0.2655 mg/L 0.02177 0.2655 mg/L 0.02177 8.20%  
QC value within limits for Sodium, 7440-23-5 Recovery = Not calculated  
Strontium, 7440-24-6† 492.9 0.0010 mg/L 0.00007 0.0010 mg/L 0.00007 6.33%  
QC value within limits for Strontium, 7440-24-6 Recovery = Not calculated  
Thallium, 7440-28-0† 16.6 0.0025 mg/L 0.00172 0.0025 mg/L 0.00172 69.07%  
QC value within limits for Thallium, 7440-28-0 Recovery = Not calculated  
Tin, 7440-31-5† -5.0 -0.0005 mg/L 0.00150 -0.0005 mg/L 0.00150 296.76%  
QC value within limits for Tin, 7440-31-5 Recovery = Not calculated  
Titanium, 7440-32-6† 146.7 0.0003 mg/L 0.00013 0.0003 mg/L 0.00013 52.76%  
QC value within limits for Titanium, 7440-32-6 Recovery = Not calculated  
Vanadium, 7440-62-2† -398.4 -0.0032 mg/L 0.00288 -0.0032 mg/L 0.00288 88.79%  
QC value within limits for Vanadium, 7440-62-2 Recovery = Not calculated  
Zinc, 7440-66-6† -61.8 -0.0003 mg/L 0.00073 -0.0003 mg/L 0.00073 239.42%  
QC value within limits for Zinc, 7440-66-6 Recovery = Not calculated  
Zirconium, 7440-67-7† 9.6 0.0000 mg/L 0.00026 0.0000 mg/L 0.00026 >999.9%  
QC value within limits for Zirconium, 7440-67-7 Recovery = Not calculated  
All analyte(s) passed QC.

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Sequence No.: 72  
Sample ID: 20610120404  
Analyst:  
Logged In Analyst (Original) : met  
Initial Sample Wt:  
Dilution: 1X

Autosampler Location: 67  
Date Collected: 10/13/2006 6:02:05 PM  
Data Type: Reprocessed on 10/16/2006 9:34:28 AM  
Initial Sample Vol:  
Sample Prep Vol:

Mean Data: 20610120404

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	67002.9	95.873 %	0.3348			0.35%
Ar 420.067 R	1185634.6	97.415 %	0.2261			0.23%
Scandium-IS	3361264.4	117.79 %	1.369			1.16%
Yttrium, 7440-65-5A	1769983.6	116.70 %	1.374			1.18%
Yttrium, 7440-65-5R	96921.6	120.65 %	0.587			0.49%
Aluminum, 7429-90-5†	-14.4	-0.017 mg/L	0.0085	-0.017 mg/L	0.0085	49.05%
Antimony, 7440-36-0†	-12.5	-0.0019 mg/L	0.00170	-0.0019 mg/L	0.00170	90.14%
Arsenic, 7440-38-2†	9.7	0.0030 mg/L	0.00183	0.0030 mg/L	0.00183	59.93%
Barium, 7440-39-3†	5531.2	0.0287 mg/L	0.00025	0.0287 mg/L	0.00025	0.86%
Beryllium, 7440-41-7†	-387.0	-0.0001 mg/L	0.00003	-0.0001 mg/L	0.00003	33.94%
Boron, 7440-42-8†	5563.3	0.0912 mg/L	0.00027	0.0912 mg/L	0.00027	0.29%
Cadmium, 7440-43-9†	-621.3	-0.0025 mg/L	0.00007	-0.0025 mg/L	0.00007	2.96%
Calcium, 7440-70-2†	175593.6	92.55 mg/L	0.819	92.55 mg/L	0.819	0.89%
Chromium, 7440-47-3†	338.8	0.0008 mg/L	0.00009	0.0008 mg/L	0.00009	11.76%
Cobalt, 7440-48-4†	12.6	0.0003 mg/L	0.00005	0.0003 mg/L	0.00005	19.96%
Copper, 7440-50-8†	75.0	-0.0004 mg/L	0.00018	-0.0004 mg/L	0.00018	48.85%
Iron, 7439-89-6†	-39.7	-0.0263 mg/L	0.00195	-0.0263 mg/L	0.00195	7.42%
Lead, 7439-92-1†	-4.0	0.0003 mg/L	0.00079	0.0003 mg/L	0.00079	305.43%
Lithium, 7439-93-2†	186.8	0.0032 mg/L	0.00041	0.0032 mg/L	0.00041	13.12%
Magnesium, 7439-95-4†	6256.6	19.927 mg/L	0.0522	19.927 mg/L	0.0522	0.26%
Manganese, 7439-96-5†	4644.8	0.006 mg/L	0.0001	0.006 mg/L	0.0001	1.53%
Molybdenum, 7439-98-7†	52.2	0.0014 mg/L	0.00061	0.0014 mg/L	0.00061	45.36%

000105

Nickel, 7440-02-0†	81.9	0.0014 mg/L	0.00024	0.0014 mg/L	0.00024	16.72%
Potassium, 7440-09-7†	3139.3	1.3823 mg/L	0.01297	1.3823 mg/L	0.01297	0.94%
Selenium, 7782-49-2†	-6.3	-0.0019 mg/L	0.00655	-0.0019 mg/L	0.00655	336.32%
Silicon, 7440-21-3†	4639.2	5.0806 mg/L	0.02377	5.0806 mg/L	0.02377	0.47%
Silver, 7440-22-4†	393.9	0.0003 mg/L	0.00023	0.0003 mg/L	0.00023	65.94%
Sodium, 7440-23-5†	41911.5	7.3468 mg/L	0.02125	7.3468 mg/L	0.02125	0.29%
Strontium, 7440-24-6†	851744.6	1.7876 mg/L	0.01237	1.7876 mg/L	0.01237	0.69%
Thallium, 7440-28-0†	14.7	0.0022 mg/L	0.00111	0.0022 mg/L	0.00111	49.78%
Tin, 7440-31-5†	-223.7	-0.0203 mg/L	0.00046	-0.0203 mg/L	0.00046	2.28%
Titanium, 7440-32-6†	91.2	0.0002 mg/L	0.00012	0.0002 mg/L	0.00012	73.42%
Vanadium, 7440-62-2†	-768.0	-0.0057 mg/L	0.00037	-0.0057 mg/L	0.00037	6.59%
Zinc, 7440-66-6†	3698.5	0.0185 mg/L	0.00014	0.0185 mg/L	0.00014	0.76%
Zirconium, 7440-67-7†	-3979.0	-0.0070 mg/L	0.00009	-0.0070 mg/L	0.00009	1.24%

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Sequence No.: 73

Sample ID: 20610120405

Analyst:

Logged In Analyst (Original) : met

Initial Sample Wt:

Dilution: 1X

Autosampler Location: 68

Date Collected: 10/13/2006 6:08:44 PM

Data Type: Reprocessed on 10/16/2006 9:34:30 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 20610120405

Analyte	Mean Corrected		Calib	Sample		RSD
	Intensity	Conc. Units		Std.Dev.	Conc. Units	
Ar 363.268 A	67383.9	96.418 %	0.2125			0.22%
Ar 420.067 R	1188126.5	97.620 %	0.1807			0.19%
Scandium-IS	3519496.5	123.34 %	0.334			0.27%
Yttrium, 7440-65-5A	1851239.1	122.05 %	0.366			0.30%
Yttrium, 7440-65-5R	101108.1	125.87 %	0.212			0.17%
Aluminum, 7429-90-5†	-14.0	-0.017 mg/L	0.0046	-0.017 mg/L	0.0046	27.28%
Antimony, 7440-36-0†	-21.6	-0.0034 mg/L	0.00057	-0.0034 mg/L	0.00057	17.00%
Arsenic, 7440-38-2†	36.9	0.0104 mg/L	0.00142	0.0104 mg/L	0.00142	13.64%
Barium, 7440-39-3†	3242.3	0.0166 mg/L	0.00013	0.0166 mg/L	0.00013	0.79%
Beryllium, 7440-41-7†	-505.1	-0.0001 mg/L	0.00000	-0.0001 mg/L	0.00000	2.58%
Boron, 7440-42-8†	22614.8	0.3711 mg/L	0.00013	0.3711 mg/L	0.00013	0.03%
Cadmium, 7440-43-9†	-646.6	-0.0026 mg/L	0.00003	-0.0026 mg/L	0.00003	1.12%
Calcium, 7440-70-2†	143950.0	75.87 mg/L	0.074	75.87 mg/L	0.074	0.10%
Chromium, 7440-47-3†	266.5	-0.0005 mg/L	0.00005	-0.0005 mg/L	0.00005	8.68%
Cobalt, 7440-48-4†	14.8	0.0003 mg/L	0.00017	0.0003 mg/L	0.00017	54.72%
Copper, 7440-50-8†	55.8	-0.0007 mg/L	0.00010	-0.0007 mg/L	0.00010	13.46%
Iron, 7439-89-6†	983.0	0.6535 mg/L	0.00896	0.6535 mg/L	0.00896	1.37%
Lead, 7439-92-1†	-1.2	0.0002 mg/L	0.00036	0.0002 mg/L	0.00036	214.81%
Lithium, 7439-93-2†	1762.3	0.0284 mg/L	0.00056	0.0284 mg/L	0.00056	1.97%
Magnesium, 7439-95-4†	12669.0	40.349 mg/L	0.3000	40.349 mg/L	0.3000	0.74%
Manganese, 7439-96-5†	5888.9	0.007 mg/L	0.0001	0.007 mg/L	0.0001	1.08%
Molybdenum, 7439-98-7†	113.3	0.0033 mg/L	0.00016	0.0033 mg/L	0.00016	4.78%
Nickel, 7440-02-0†	46.5	0.0008 mg/L	0.00025	0.0008 mg/L	0.00025	32.52%
Potassium, 7440-09-7†	15275.7	6.7180 mg/L	0.00672	6.7180 mg/L	0.00672	0.10%
Selenium, 7782-49-2†	-10.6	-0.0049 mg/L	0.00301	-0.0049 mg/L	0.00301	61.00%
Silicon, 7440-21-3†	4736.8	5.1778 mg/L	0.03886	5.1778 mg/L	0.03886	0.75%
Silver, 7440-22-4†	299.4	0.0003 mg/L	0.00014	0.0003 mg/L	0.00014	43.66%
Sodium, 7440-23-5†	131704.0	23.093 mg/L	0.0627	23.093 mg/L	0.0627	0.27%
Strontium, 7440-24-6†	1306911.0	2.7442 mg/L	0.00621	2.7442 mg/L	0.00621	0.23%
Thallium, 7440-28-0†	31.2	0.0046 mg/L	0.00095	0.0046 mg/L	0.00095	20.39%
Tin, 7440-31-5†	-205.9	-0.0187 mg/L	0.00095	-0.0187 mg/L	0.00095	5.09%
Titanium, 7440-32-6†	83.3	0.0001 mg/L	0.00017	0.0001 mg/L	0.00017	117.37%
Vanadium, 7440-62-2†	-1969.9	-0.0146 mg/L	0.00032	-0.0146 mg/L	0.00032	2.17%
Zinc, 7440-66-6†	2899.8	0.0140 mg/L	0.00045	0.0140 mg/L	0.00045	3.18%
Zirconium, 7440-67-7†	-3298.1	-0.0058 mg/L	0.00022	-0.0058 mg/L	0.00022	3.75%

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Sequence No.: 74

Sample ID: 20610120406

Analyst:

Logged In Analyst (Original) : met

Initial Sample Wt:

Dilution: 1X

Autosampler Location: 69

Date Collected: 10/13/2006 6:15:28 PM

Data Type: Reprocessed on 10/16/2006 9:34:32 AM

Initial Sample Vol:

Sample Prep Vol:

000106

Mean Data: 20610120406

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc. Units			Conc. Units	Std.Dev.		
Ar 363.268 A	67637.7	96.781 %	0.1937				0.0055	0.20%
Ar 420.067 R	1183027.8	97.201 %	0.3829				0.00055	0.39%
Scandium-IS	3605891.1	126.36 %	0.198					0.16%
Yttrium, 7440-65-5A	1897080.0	125.08 %	0.221					0.18%
Yttrium, 7440-65-5R	103704.1	129.10 %	2.242					1.74%
Aluminum, 7429-90-5†	-21.0	-0.025 mg/L	0.0055	-0.025 mg/L	0.0055	21.73%		
Antimony, 7440-36-0†	-20.9	-0.0037 mg/L	0.00055	-0.0037 mg/L	0.00055	14.98%		
Arsenic, 7440-38-2†	36.7	0.0103 mg/L	0.00194	0.0103 mg/L	0.00194	18.72%		
Barium, 7440-39-3†	5443.3	0.0282 mg/L	0.00009	0.0282 mg/L	0.00009	0.32%		
Beryllium, 7440-41-7†	-557.7	-0.0001 mg/L	0.00002	-0.0001 mg/L	0.00002	12.70%		
Boron, 7440-42-8†	18398.5	0.3020 mg/L	0.00038	0.3020 mg/L	0.00038	0.12%		
Cadmium, 7440-43-9†	-638.8	-0.0026 mg/L	0.00003	-0.0026 mg/L	0.00003	1.31%		
Calcium, 7440-70-2†	133483.7	70.35 mg/L	0.151	70.35 mg/L	0.151	0.21%		
Chromium, 7440-47-3†	6377.1	0.0348 mg/L	0.00025	0.0348 mg/L	0.00025	0.72%		
Cobalt, 7440-48-4†	71.4	0.0013 mg/L	0.00003	0.0013 mg/L	0.00003	2.44%		
Copper, 7440-50-8†	341.0	0.0001 mg/L	0.00032	0.0001 mg/L	0.00032	616.70%		
Iron, 7439-89-6†	1138.8	0.7570 mg/L	0.01476	0.7570 mg/L	0.01476	1.95%		
Lead, 7439-92-1†	-2.5	0.0000 mg/L	0.00119	0.0000 mg/L	0.00119	>999.9%		
Lithium, 7439-93-2†	1492.5	0.0241 mg/L	0.00076	0.0241 mg/L	0.00076	3.18%		
Magnesium, 7439-95-4†	11750.3	37.423 mg/L	0.7570	37.423 mg/L	0.7570	2.02%		
Manganese, 7439-96-5†	5334.8	0.006 mg/L	0.0000	0.006 mg/L	0.0000	0.27%		
Molybdenum, 7439-98-7†	248.7	0.0075 mg/L	0.00044	0.0075 mg/L	0.00044	5.89%		
Nickel, 7440-02-0†	1558.1	0.0270 mg/L	0.00016	0.0270 mg/L	0.00016	0.60%		
Potassium, 7440-09-7†	11576.8	5.0914 mg/L	0.02375	5.0914 mg/L	0.02375	0.47%		
Selenium, 7782-49-2†	-1.8	0.0002 mg/L	0.00337	0.0002 mg/L	0.00337	>999.9%		
Silicon, 7440-21-3†	4520.5	4.9419 mg/L	0.09971	4.9419 mg/L	0.09971	2.02%		
Silver, 7440-22-4†	266.4	0.0003 mg/L	0.00006	0.0003 mg/L	0.00006	18.42%		
Sodium, 7440-23-5†	114256.6	20.033 mg/L	0.0756	20.033 mg/L	0.0756	0.38%		
Strontium, 7440-24-6†	1192906.9	2.5048 mg/L	0.00297	2.5048 mg/L	0.00297	0.12%		
Thallium, 7440-28-0†	27.2	0.0040 mg/L	0.00053	0.0040 mg/L	0.00053	13.17%		
Tin, 7440-31-5†	-205.6	-0.0188 mg/L	0.00090	-0.0188 mg/L	0.00090	4.79%		
Titanium, 7440-32-6†	135.7	0.0002 mg/L	0.00013	0.0002 mg/L	0.00013	57.45%		
Vanadium, 7440-62-2†	-1882.2	-0.0140 mg/L	0.00053	-0.0140 mg/L	0.00053	3.76%		
Zinc, 7440-66-6†	3064.6	0.0147 mg/L	0.00025	0.0147 mg/L	0.00025	1.72%		
Zirconium, 7440-67-7†	-3511.3	-0.0063 mg/L	0.00002	-0.0063 mg/L	0.00002	0.38%		

Sequence No.: 75

Autosampler Location: 70

Sample ID: 20610121501

Date Collected: 10/13/2006 6:21:55 PM

Analyst:

Data Type: Reprocessed on 10/16/2006 9:34:34 AM

Logged In Analyst (Original) : met

Initial Sample Vol:

Initial Sample Wt:

Sample Prep Vol:

Dilution: 25X

Mean Data: 20610121501

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc. Units			Conc. Units	Std.Dev.		
Ar 363.268 A	68937.2	98.641 %	0.2967				0.30%	
Ar 420.067 R	1173906.3	96.452 %	0.1208				0.13%	
Scandium-IS	3278651.3	114.90 %	0.243				0.21%	
Yttrium, 7440-65-5A	1692036.8	111.56 %	0.189				0.17%	
Yttrium, 7440-65-5R	104588.1	130.20 %	2.106				1.62%	
Aluminum, 7429-90-5†	909979.7	1098 mg/L	18.9	27450 mg/L	472.1	1.72%		
Antimony, 7440-36-0†	71.0	-0.0309 mg/L	0.00433	-0.7721 mg/L	0.10825	14.02%		
Arsenic, 7440-38-2†	-690.2	0.0046 mg/L	0.00786	0.1145 mg/L	0.19647	171.54%		
Barium, 7440-39-3†	302.8	0.0003 mg/L	0.00008	0.0077 mg/L	0.00201	26.17%		
Beryllium, 7440-41-7†	1066.6	0.0001 mg/L	0.00000	0.0037 mg/L	0.00010	2.70%		
Boron, 7440-42-8†	1822.0	0.0232 mg/L	0.00043	0.5804 mg/L	0.01080	1.86%		
Cadmium, 7440-43-9†	-3635.4	0.0027 mg/L	0.00037	0.0670 mg/L	0.00914	13.65%		
Calcium, 7440-70-2†	116.3	-0.018 mg/L	0.0021	-0.447 mg/L	0.0521	11.67%		
Chromium, 7440-47-3†	20470.5	-0.0393 mg/L	0.00246	-0.9817 mg/L	0.06146	6.26%		
Cobalt, 7440-48-4†	865.2	0.0042 mg/L	0.00068	0.1057 mg/L	0.01710	16.17%		
Copper, 7440-50-8†	105058.8	0.2676 mg/L	0.00062	6.6889 mg/L	0.01549	0.23%		
Iron, 7439-89-6†	1222.9	0.7183 mg/L	0.01384	17.958 mg/L	0.3459	1.93%		
Lead, 7439-92-1†	-2846.4	-0.0043 mg/L	0.00460	-0.1085 mg/L	0.11500	105.96%		
Lithium, 7439-93-2†	-70.0	0.0003 mg/L	0.00034	0.0083 mg/L	0.00845	101.67%		
Magnesium, 7439-95-4†	8.1	-0.0030 mg/L	0.00380	-0.0745 mg/L	0.09495	127.38%		

000107

Manganese, 7439-96-5†	19370.6	0.025 mg/L	0.0004	0.620 mg/L	0.0104	1.67%
Molybdenum, 7439-98-7†	-131.4	0.0030 mg/L	0.00067	0.0759 mg/L	0.01675	22.05%
Nickel, 7440-02-0†	14280.0	0.2536 mg/L	0.00347	6.3394 mg/L	0.08672	1.37%
Potassium, 7440-09-7†	373.9	0.1478 mg/L	0.00990	3.6952 mg/L	0.24752	6.70%
Selenium, 7782-49-2†	-94.5	0.0158 mg/L	0.01191	0.3942 mg/L	0.29785	75.57%
Silicon, 7440-21-3†	66.5	0.0617 mg/L	0.00512	1.5427 mg/L	0.12797	8.30%
Silver, 7440-22-4†	-77.4	0.0001 mg/L	0.00038	0.0019 mg/L	0.00956	495.93%
Sodium, 7440-23-5†	4289.5	0.6541 mg/L	0.02538	16.352 mg/L	0.6345	3.88%
Strontium, 7440-24-6†	979.4	0.0020 mg/L	0.00008	0.0512 mg/L	0.00208	4.06%
Thallium, 7440-28-0†	-71.2	-0.0012 mg/L	0.00703	-0.0312 mg/L	0.17576	563.59%
Tin, 7440-31-5†	208.2	0.0043 mg/L	0.00399	0.1067 mg/L	0.09985	93.57%
Titanium, 7440-32-6†	4214.7	0.0073 mg/L	0.00008	0.1813 mg/L	0.00203	1.12%
Vanadium, 7440-62-2†	530.5	0.0013 mg/L	0.00087	0.0323 mg/L	0.02175	67.37%
Zinc, 7440-66-6†	47368.5	0.2378 mg/L	0.00347	5.9461 mg/L	0.08675	1.46%
Zirconium, 7440-67-7†	-157.4	-0.0003 mg/L	0.00012	-0.0085 mg/L	0.00300	35.36%

Sequence No.: 76

Sample ID: 20610121501

Analyst:

Logged In Analyst (Original) : met

Initial Sample Wt:

Dilution: 40X

Autosampler Location: 71

Date Collected: 10/13/2006 6:27:46 PM

Data Type: Reprocessed on 10/16/2006 9:34:36 AM

Initial Sample Vol:

Sample Prep Vol:

Mean Data: 20610121501

Analyte	Mean Corrected		Calib		Sample		RSD	
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units		
Ar 363.268 A	69507.9	99.457	%	0.3030			0.30%	
Ar 420.067 R	1189085.4	97.699	%	0.1098			0.11%	
Scandium-IS	3204246.4	112.29	%	0.571			0.51%	
Yttrium, 7440-65-5A	1664551.6	109.74	%	0.705			0.64%	
Yttrium, 7440-65-5R	97937.9	121.92	%	1.180			0.97%	
Aluminum, 7429-90-5†	576775.8	695.9	mg/L	11.70	27840	mg/L	468.1	1.68%
Antimony, 7440-36-0†	26.2	-0.0225	mg/L	0.00368	-0.8996	mg/L	0.14717	16.36%
Arsenic, 7440-38-2†	-350.2	0.0266	mg/L	0.01005	1.0635	mg/L	0.40201	37.80%
Barium, 7440-39-3†	196.8	0.0002	mg/L	0.00007	0.0089	mg/L	0.00264	29.49%
Beryllium, 7440-41-7†	564.2	0.0001	mg/L	0.00001	0.0029	mg/L	0.00054	18.88%
Boron, 7440-42-8†	1432.1	0.0193	mg/L	0.00066	0.7701	mg/L	0.02637	3.42%
Cadmium, 7440-43-9†	-2225.7	0.0020	mg/L	0.00014	0.0808	mg/L	0.00551	6.82%
Calcium, 7440-70-2†	47.0	-0.025	mg/L	0.0039	-1.017	mg/L	0.1546	15.19%
Chromium, 7440-47-3†	12444.0	-0.0279	mg/L	0.00223	-1.1179	mg/L	0.08921	7.98%
Cobalt, 7440-48-4†	512.1	0.0021	mg/L	0.00050	0.0825	mg/L	0.01985	24.07%
Copper, 7440-50-8†	62762.0	0.1598	mg/L	0.00035	6.3911	mg/L	0.01408	0.22%
Iron, 7439-89-6†	740.9	0.4326	mg/L	0.00481	17.303	mg/L	0.1925	1.11%
Lead, 7439-92-1†	-1693.6	0.0070	mg/L	0.00674	0.2780	mg/L	0.26946	96.92%
Lithium, 7439-93-2†	-20.4	0.0006	mg/L	0.00033	0.0237	mg/L	0.01303	54.90%
Magnesium, 7439-95-4†	2.5	-0.0102	mg/L	0.00372	-0.4071	mg/L	0.14885	36.57%
Manganese, 7439-96-5†	11469.9	0.015	mg/L	0.0002	0.589	mg/L	0.0060	1.03%
Molybdenum, 7439-98-7†	-39.9	0.0033	mg/L	0.00062	0.1306	mg/L	0.02491	19.07%
Nickel, 7440-02-0†	8727.4	0.1551	mg/L	0.00220	6.2040	mg/L	0.08801	1.42%
Potassium, 7440-09-7†	303.4	0.1229	mg/L	0.00295	4.9159	mg/L	0.11817	2.40%
Selenium, 7782-49-2†	-57.5	0.0114	mg/L	0.00315	0.4544	mg/L	0.12590	27.71%
Silicon, 7440-21-3†	33.6	0.0297	mg/L	0.00187	1.1873	mg/L	0.07465	6.29%
Silver, 7440-22-4†	-26.1	0.0001	mg/L	0.00017	0.0044	mg/L	0.00681	154.80%
Sodium, 7440-23-5†	3865.2	0.6156	mg/L	0.00510	24.625	mg/L	0.2041	0.83%
Strontium, 7440-24-6†	759.4	0.0016	mg/L	0.00007	0.0636	mg/L	0.00263	4.14%
Thallium, 7440-28-0†	-44.1	-0.0006	mg/L	0.00313	-0.0254	mg/L	0.12516	493.18%
Tin, 7440-31-5†	110.5	0.0005	mg/L	0.00186	0.0206	mg/L	0.07446	362.05%
Titanium, 7440-32-6†	2607.2	0.0045	mg/L	0.00013	0.1795	mg/L	0.00508	2.83%
Vanadium, 7440-62-2†	302.7	0.0005	mg/L	0.00033	0.0219	mg/L	0.01331	60.77%
Zinc, 7440-66-6†	28669.9	0.1439	mg/L	0.00198	5.7543	mg/L	0.07910	1.37%
Zirconium, 7440-67-7†	-241.5	-0.0005	mg/L	0.00006	-0.0202	mg/L	0.00228	11.28%

Sequence No.: 77

Sample ID: ---

Analyst:

Logged In Analyst (Original) : met

Initial Sample Wt:

Dilution: 1X

Autosampler Location: 72

Date Collected: 10/13/2006 6:33:37 PM

Data Type: Reprocessed on 10/16/2006 9:34:38 AM

Initial Sample Vol:

Sample Prep Vol:

000108

Mean Data: ---

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc. Units			Conc. Units	Std.Dev.		
Ar 363.268 A	69690.9	99.719 %	0.6078					0.61%
Ar 420.067 R	1205185.9	99.022 %	0.2138					0.22%
Scandium-IS	3031837.2	106.25 %	0.485					0.46%
Yttrium, 7440-65-5A	1615011.9	106.48 %	0.601					0.56%
Yttrium, 7440-65-5R	86782.3	108.03 %	1.572					1.45%
Aluminum, 7429-90-5†	3.5	0.004 mg/L	0.0103	0.004 mg/L	0.0103	245.91%		
Antimony, 7440-36-0†	-5.5	-0.0008 mg/L	0.00166	-0.0008 mg/L	0.00166	198.22%		
Arsenic, 7440-38-2†	11.3	0.0031 mg/L	0.00097	0.0031 mg/L	0.00097	31.76%		
Barium, 7440-39-3†	2.8	0.0000 mg/L	0.00004	0.0000 mg/L	0.00004	226.71%		
Beryllium, 7440-41-7†	-177.1	0.0000 mg/L	0.00001	0.0000 mg/L	0.00001	25.96%		
Boron, 7440-42-8†	992.9	0.0163 mg/L	0.00057	0.0163 mg/L	0.00057	3.52%		
Cadmium, 7440-43-9†	-21.5	-0.0001 mg/L	0.00007	-0.0001 mg/L	0.00007	87.22%		
Calcium, 7440-70-2†	-78.7	-0.041 mg/L	0.0055	-0.041 mg/L	0.0055	13.15%		
Chromium, 7440-47-3†	-337.4	-0.0020 mg/L	0.00015	-0.0020 mg/L	0.00015	7.88%		
Cobalt, 7440-48-4†	-5.6	-0.0001 mg/L	0.00017	-0.0001 mg/L	0.00017	178.45%		
Copper, 7440-50-8†	-793.2	-0.0020 mg/L	0.00035	-0.0020 mg/L	0.00035	17.09%		
Iron, 7439-89-6†	-53.9	-0.0358 mg/L	0.00048	-0.0358 mg/L	0.00048	1.34%		
Lead, 7439-92-1†	0.4	0.0000 mg/L	0.00057	0.0000 mg/L	0.00057	>999.9%		
Lithium, 7439-93-2†	-49.3	-0.0008 mg/L	0.00055	-0.0008 mg/L	0.00055	69.63%		
Magnesium, 7439-95-4†	0.4	0.0012 mg/L	0.01698	0.0012 mg/L	0.01698	>999.9%		
Manganese, 7439-96-5†	-148.6	0.0000 mg/L	0.0000	0.0000 mg/L	0.0000	17.06%		
Molybdenum, 7439-98-7†	-5.5	-0.0002 mg/L	0.00015	-0.0002 mg/L	0.00015	88.81%		
Nickel, 7440-02-0†	-48.6	-0.0008 mg/L	0.00029	-0.0008 mg/L	0.00029	34.91%		
Potassium, 7440-09-7†	131.7	0.0579 mg/L	0.01142	0.0579 mg/L	0.01142	19.71%		
Selenium, 7782-49-2†	5.0	0.0028 mg/L	0.00344	0.0028 mg/L	0.00344	121.50%		
Silicon, 7440-21-3†	-9.2	-0.0101 mg/L	0.00229	-0.0101 mg/L	0.00229	22.77%		
Silver, 7440-22-4†	82.0	0.0002 mg/L	0.00020	0.0002 mg/L	0.00020	83.00%		
Sodium, 7440-23-5†	1786.5	0.3133 mg/L	0.01782	0.3133 mg/L	0.01782	5.69%		
Strontium, 7440-24-6†	449.5	0.0009 mg/L	0.00011	0.0009 mg/L	0.00011	11.24%		
Thallium, 7440-28-0†	4.3	0.0006 mg/L	0.00040	0.0006 mg/L	0.00040	61.00%		
Tin, 7440-31-5†	-29.6	-0.0030 mg/L	0.00021	-0.0030 mg/L	0.00021	7.00%		
Titanium, 7440-32-6†	102.1	0.0002 mg/L	0.00015	0.0002 mg/L	0.00015	87.07%		
Vanadium, 7440-62-2†	-65.5	-0.0005 mg/L	0.00098	-0.0005 mg/L	0.00098	183.73%		
Zinc, 7440-66-6†	-240.4	-0.0012 mg/L	0.00026	-0.0012 mg/L	0.00026	20.91%		
Zirconium, 7440-67-7†	-340.4	-0.0007 mg/L	0.00006	-0.0007 mg/L	0.00006	7.95%		

Sequence No.: 78

Autosampler Location: 73

Date Collected: 10/13/2006 6:40:27 PM

Data Type: Reprocessed on 10/16/2006 9:34:40 AM

Sample ID: ---

Initial Sample Vol:

Analyst:

Sample Prep Vol:

Logged In Analyst (Original) : met

Initial Sample Wt:

Dilution: 1X

Mean Data: ---

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc. Units			Conc. Units	Std.Dev.		
Ar 363.268 A	69717.2	99.757 %	0.2548					0.26%
Ar 420.067 R	1202012.2	98.761 %	0.3974					0.40%
Scandium-IS	3082692.8	108.03 %	1.592					1.47%
Yttrium, 7440-65-5A	1642804.5	108.31 %	1.521					1.40%
Yttrium, 7440-65-5R	86191.6	107.30 %	1.591					1.48%
Aluminum, 7429-90-5†	-12.8	-0.015 mg/L	0.0050	-0.015 mg/L	0.0050	32.09%		
Antimony, 7440-36-0†	-3.6	-0.0005 mg/L	0.00156	-0.0005 mg/L	0.00156	288.77%		
Arsenic, 7440-38-2†	9.1	0.0024 mg/L	0.00077	0.0024 mg/L	0.00077	31.38%		
Barium, 7440-39-3†	-16.2	-0.0001 mg/L	0.00000	-0.0001 mg/L	0.00000	4.50%		
Beryllium, 7440-41-7†	-144.5	0.0000 mg/L	0.00003	0.0000 mg/L	0.00003	79.42%		
Boron, 7440-42-8†	839.3	0.0137 mg/L	0.00018	0.0137 mg/L	0.00018	1.29%		
Cadmium, 7440-43-9†	-49.0	-0.0002 mg/L	0.00008	-0.0002 mg/L	0.00008	41.09%		
Calcium, 7440-70-2†	-89.2	-0.047 mg/L	0.0045	-0.047 mg/L	0.0045	9.55%		
Chromium, 7440-47-3†	-324.3	-0.0019 mg/L	0.00022	-0.0019 mg/L	0.00022	11.51%		
Cobalt, 7440-48-4†	6.3	0.0001 mg/L	0.00016	0.0001 mg/L	0.00016	137.28%		
Copper, 7440-50-8†	-1018.0	-0.0026 mg/L	0.00011	-0.0026 mg/L	0.00011	4.16%		
Iron, 7439-89-6†	-54.3	-0.0361 mg/L	0.00172	-0.0361 mg/L	0.00172	4.77%		
Lead, 7439-92-1†	0.7	0.0001 mg/L	0.00065	0.0001 mg/L	0.00065	988.45%		

000109

Lithium, 7439-93-2†	-74.9	-0.0012 mg/L	0.00052	-0.0012 mg/L	0.00052	42.99%
Magnesium, 7439-95-4†	-2.3	-0.0072 mg/L	0.01127	-0.0072 mg/L	0.01127	156.35%
Manganese, 7439-96-5†	-338.7	0.000 mg/L	0.00000	0.000 mg/L	0.00000	4.96%
Molybdenum, 7439-98-7†	-3.9	-0.0001 mg/L	0.00002	-0.0001 mg/L	0.00002	19.08%
Nickel, 7440-02-0†	-37.1	-0.0006 mg/L	0.00026	-0.0006 mg/L	0.00026	40.76%
Potassium, 7440-09-7†	129.1	0.0568 mg/L	0.01020	0.0568 mg/L	0.01020	17.96%
Selenium, 7782-49-2†	9.5	0.0054 mg/L	0.00184	0.0054 mg/L	0.00184	33.80%
Silicon, 7440-21-3†	-11.5	-0.0126 mg/L	0.00330	-0.0126 mg/L	0.00330	26.11%
Silver, 7440-22-4†	152.4	0.0005 mg/L	0.00012	0.0005 mg/L	0.00012	26.17%
Sodium, 7440-23-5†	1396.5	0.2449 mg/L	0.01109	0.2449 mg/L	0.01109	4.53%
Strontium, 7440-24-6†	420.6	0.0009 mg/L	0.00008	0.0009 mg/L	0.00008	9.28%
Thallium, 7440-28-0†	10.7	0.0016 mg/L	0.00059	0.0016 mg/L	0.00059	36.84%
Tin, 7440-31-5†	-30.6	-0.0031 mg/L	0.00091	-0.0031 mg/L	0.00091	29.39%
Titanium, 7440-32-6†	103.3	0.0002 mg/L	0.00018	0.0002 mg/L	0.00018	100.00%
Vanadium, 7440-62-2†	-76.6	-0.0006 mg/L	0.00039	-0.0006 mg/L	0.00039	63.06%
Zinc, 7440-66-6†	-309.2	-0.0016 mg/L	0.00014	-0.0016 mg/L	0.00014	9.04%
Zirconium, 7440-67-7†	-402.7	-0.0008 mg/L	0.00007	-0.0008 mg/L	0.00007	8.03%

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Sequence No.: 79

Sample ID: ---

Analyst:

Logged In Analyst (Original) : met

Initial Sample Wt:

Dilution: 1X

Autosampler Location: 74

Date Collected: 10/13/2006 6:47:18 PM

Data Type: Reprocessed on 10/16/2006 9:34:42 AM

Initial Sample Vol:

Sample Prep Vol:

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Mean Data: ---

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	69832.2	99.921 %	0.3828			0.38%
Ar 420.067 R	1202990.9	98.841 %	0.2532			0.26%
Scandium-IS	3050557.3	106.90 %	0.767			0.72%
Yttrium, 7440-65-5A	1624058.8	107.08 %	0.835			0.78%
Yttrium, 7440-65-5R	87326.4	108.71 %	0.496			0.46%
Aluminum, 7429-90-5†	-15.3	-0.019 mg/L	0.0053	-0.019 mg/L	0.0053	28.86%
Antimony, 7440-36-0†	-11.2	-0.0017 mg/L	0.00108	-0.0017 mg/L	0.00108	62.74%
Arsenic, 7440-38-2†	11.7	0.0032 mg/L	0.00110	0.0032 mg/L	0.00110	34.77%
Barium, 7440-39-3†	-3.4	0.0000 mg/L	0.00007	0.0000 mg/L	0.00007	460.87%
Beryllium, 7440-41-7†	-175.4	0.0000 mg/L	0.00001	0.0000 mg/L	0.00001	31.08%
Boron, 7440-42-8†	721.8	0.0118 mg/L	0.00017	0.0118 mg/L	0.00017	1.41%
Cadmium, 7440-43-9†	-27.6	-0.0001 mg/L	0.00003	-0.0001 mg/L	0.00003	25.06%
Calcium, 7440-70-2†	-83.9	-0.044 mg/L	0.0063	-0.044 mg/L	0.0063	14.14%
Chromium, 7440-47-3†	-332.0	-0.0019 mg/L	0.00015	-0.0019 mg/L	0.00015	7.68%
Cobalt, 7440-48-4†	7.0	0.0001 mg/L	0.00006	0.0001 mg/L	0.00006	47.62%
Copper, 7440-50-8†	-907.2	-0.0023 mg/L	0.00036	-0.0023 mg/L	0.00036	15.61%
Iron, 7439-89-6†	-53.4	-0.0355 mg/L	0.00129	-0.0355 mg/L	0.00129	3.63%
Lead, 7439-92-1†	-2.8	-0.0002 mg/L	0.00108	-0.0002 mg/L	0.00108	451.22%
Lithium, 7439-93-2†	-75.2	-0.0012 mg/L	0.00030	-0.0012 mg/L	0.00030	25.08%
Magnesium, 7439-95-4†	0.0	0.0001 mg/L	0.00831	0.0001 mg/L	0.00831	>999.9%
Manganese, 7439-96-5†	-375.9	0.000 mg/L	0.00000	0.000 mg/L	0.00000	8.33%
Molybdenum, 7439-98-7†	-5.5	-0.0002 mg/L	0.00033	-0.0002 mg/L	0.00033	190.83%
Nickel, 7440-02-0†	-26.2	-0.0005 mg/L	0.00005	-0.0005 mg/L	0.00005	11.91%
Potassium, 7440-09-7†	117.0	0.0515 mg/L	0.01256	0.0515 mg/L	0.01256	24.41%
Selenium, 7782-49-2†	8.9	0.0051 mg/L	0.00184	0.0051 mg/L	0.00184	36.24%
Silicon, 7440-21-3†	-11.3	-0.0124 mg/L	0.00154	-0.0124 mg/L	0.00154	12.37%
Silver, 7440-22-4†	99.5	0.0003 mg/L	0.00014	0.0003 mg/L	0.00014	46.95%
Sodium, 7440-23-5†	1121.8	0.1967 mg/L	0.01077	0.1967 mg/L	0.01077	5.48%
Strontium, 7440-24-6†	411.0	0.0009 mg/L	0.00014	0.0009 mg/L	0.00014	15.69%
Thallium, 7440-28-0†	7.9	0.0012 mg/L	0.00165	0.0012 mg/L	0.00165	139.05%
Tin, 7440-31-5†	-32.3	-0.0033 mg/L	0.00050	-0.0033 mg/L	0.00050	15.19%
Titanium, 7440-32-6†	40.8	0.0001 mg/L	0.00016	0.0001 mg/L	0.00016	224.22%
Vanadium, 7440-62-2†	-77.2	-0.0006 mg/L	0.00035	-0.0006 mg/L	0.00035	56.66%
Zinc, 7440-66-6†	-292.6	-0.0015 mg/L	0.00006	-0.0015 mg/L	0.00006	3.88%
Zirconium, 7440-67-7†	-438.3	-0.0009 mg/L	0.00015	-0.0009 mg/L	0.00015	16.49%

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Sequence No.: 80

Sample ID: ---

Analyst:

Logged In Analyst (Original) : met

Autosampler Location: 75

Date Collected: 10/13/2006 6:54:07 PM

Data Type: Reprocessed on 10/16/2006 9:34:44 AM

000110

Initial Sample Wt:  
Dilution: 1X

Initial Sample Vol:  
Sample Prep Vol:

Mean Data: ---

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	57877.5	82.816 %	1.1720			1.42%
Ar 420.067 R	1067447.9	87.705 %	0.0853			0.10%
Scandium-IS	4673073.3	163.76 %	3.983			2.43%
Yttrium, 7440-65-5A	2495816.5	164.55 %	4.124			2.51%
Yttrium, 7440-65-5R	127536.8	158.77 %	3.581			2.26%
Aluminum, 7429-90-5†	-107.4	-0.130 mg/L	0.0005	-0.130 mg/L	0.0005	0.40%
Antimony, 7440-36-0†	-31.9	-0.0049 mg/L	0.00040	-0.0049 mg/L	0.00040	8.03%
Arsenic, 7440-38-2†	53.7	0.0139 mg/L	0.00048	0.0139 mg/L	0.00048	3.45%
Barium, 7440-39-3†	-108.8	-0.0005 mg/L	0.00004	-0.0005 mg/L	0.00004	7.05%
Beryllium, 7440-41-7†	-312.2	-0.0001 mg/L	0.00001	-0.0001 mg/L	0.00001	17.64%
Boron, 7440-42-8†	-21.5	-0.0004 mg/L	0.00012	-0.0004 mg/L	0.00012	29.53%
Cadmium, 7440-43-9†	-210.9	-0.0008 mg/L	0.00004	-0.0008 mg/L	0.00004	5.15%
Calcium, 7440-70-2†	-220.0	-0.116 mg/L	0.0013	-0.116 mg/L	0.0013	1.11%
Chromium, 7440-47-3†	-635.5	-0.0038 mg/L	0.00004	-0.0038 mg/L	0.00004	0.93%
Cobalt, 7440-48-4†	187.9	0.0033 mg/L	0.00007	0.0033 mg/L	0.00007	2.04%
Copper, 7440-50-8†	-7111.9	-0.0182 mg/L	0.00010	-0.0182 mg/L	0.00010	0.55%
Iron, 7439-89-6†	-80.8	-0.0537 mg/L	0.00225	-0.0537 mg/L	0.00225	4.19%
Lead, 7439-92-1†	30.5	0.0027 mg/L	0.00052	0.0027 mg/L	0.00052	19.32%
Lithium, 7439-93-2†	-270.9	-0.0043 mg/L	0.00016	-0.0043 mg/L	0.00016	3.63%
Magnesium, 7439-95-4†	-6.3	-0.0202 mg/L	0.00864	-0.0202 mg/L	0.00864	42.76%
Manganese, 7439-96-5†	-1099.6	-0.001 mg/L	0.00000	-0.001 mg/L	0.00000	0.98%
Molybdenum, 7439-98-7†	42.4	0.0013 mg/L	0.00003	0.0013 mg/L	0.00003	2.38%
Nickel, 7440-02-0†	-135.1	-0.0023 mg/L	0.00015	-0.0023 mg/L	0.00015	6.21%
Potassium, 7440-09-7†	288.4	0.1268 mg/L	0.00820	0.1268 mg/L	0.00820	6.47%
Selenium, 7782-49-2†	30.4	0.0175 mg/L	0.00262	0.0175 mg/L	0.00262	14.94%
Silicon, 7440-21-3†	-49.1	-0.0538 mg/L	0.00311	-0.0538 mg/L	0.00311	5.78%
Silver, 7440-22-4†	98.0	-0.0001 mg/L	0.00009	-0.0001 mg/L	0.00009	129.52%
Sodium, 7440-23-5†	-89.0	-0.0156 mg/L	0.00349	-0.0156 mg/L	0.00349	22.38%
Strontium, 7440-24-6†	-955.3	-0.0020 mg/L	0.00006	-0.0020 mg/L	0.00006	3.14%
Thallium, 7440-28-0†	51.4	0.0077 mg/L	0.00028	0.0077 mg/L	0.00028	3.61%
Tin, 7440-31-5†	-73.2	-0.0074 mg/L	0.00013	-0.0074 mg/L	0.00013	1.70%
Titanium, 7440-32-6†	484.7	0.0008 mg/L	0.00008	0.0008 mg/L	0.00008	9.04%
Vanadium, 7440-62-2†	-3436.3	-0.0280 mg/L	0.00025	-0.0280 mg/L	0.00025	0.88%
Zinc, 7440-66-6†	-655.7	-0.0033 mg/L	0.00010	-0.0033 mg/L	0.00010	2.88%
Zirconium, 7440-67-7†	-720.6	-0.0015 mg/L	0.00001	-0.0015 mg/L	0.00001	0.53%

Sequence No.: 81

Autosampler Location: 76

Sample ID: ---

Date Collected: 10/13/2006 7:00:57 PM

Analyst:

Data Type: Reprocessed on 10/16/2006 9:34:46 AM

Logged In Analyst (Original) : met

Initial Sample Vol:

Initial Sample Wt:

Sample Prep Vol:

Dilution: 1X

Mean Data: ---

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	57568.5	82.374 %	1.0822			1.31%
Ar 420.067 R	1066529.0	87.629 %	0.0246			0.03%
Scandium-IS	4909532.7	172.05 %	3.714			2.16%
Yttrium, 7440-65-5A	2622167.7	172.88 %	3.704			2.14%
Yttrium, 7440-65-5R	129197.9	160.83 %	2.574			1.60%
Aluminum, 7429-90-5†	-107.1	-0.129 mg/L	0.0013	-0.129 mg/L	0.0013	1.03%
Antimony, 7440-36-0†	-32.4	-0.0050 mg/L	0.00040	-0.0050 mg/L	0.00040	7.94%
Arsenic, 7440-38-2†	58.5	0.0152 mg/L	0.00030	0.0152 mg/L	0.00030	1.95%
Barium, 7440-39-3†	-110.6	-0.0006 mg/L	0.00004	-0.0006 mg/L	0.00004	7.36%
Beryllium, 7440-41-7†	-331.1	-0.0001 mg/L	0.00001	-0.0001 mg/L	0.00001	18.57%
Boron, 7440-42-8†	-62.0	-0.0011 mg/L	0.00009	-0.0011 mg/L	0.00009	8.74%
Cadmium, 7440-43-9†	-236.2	-0.0009 mg/L	0.00005	-0.0009 mg/L	0.00005	5.62%
Calcium, 7440-70-2†	-220.2	-0.116 mg/L	0.0016	-0.116 mg/L	0.0016	1.40%
Chromium, 7440-47-3†	-652.2	-0.0039 mg/L	0.00003	-0.0039 mg/L	0.00003	0.82%
Cobalt, 7440-48-4†	196.6	0.0035 mg/L	0.00011	0.0035 mg/L	0.00011	3.13%
Copper, 7440-50-8†	-7347.0	-0.0188 mg/L	0.00006	-0.0188 mg/L	0.00006	0.33%

000111

Iron, 7439-89-6†	-83.8	-0.0557 mg/L	0.00080	-0.0557 mg/L	0.00080	1.43%
Lead, 7439-92-1†	32.0	0.0028 mg/L	0.00018	0.0028 mg/L	0.00018	6.41%
Lithium, 7439-93-2†	-293.4	-0.0047 mg/L	0.00047	-0.0047 mg/L	0.00047	9.94%
Magnesium, 7439-95-4†	-6.5	-0.0207 mg/L	0.00165	-0.0207 mg/L	0.00165	7.95%
Manganese, 7439-96-5†	-1115.6	-0.001 mg/L	0.00000	-0.001 mg/L	0.00000	1.15%
Molybdenum, 7439-98-7†	46.0	0.0014 mg/L	0.00009	0.0014 mg/L	0.00009	6.12%
Nickel, 7440-02-0†	-139.1	-0.0024 mg/L	0.00004	-0.0024 mg/L	0.00004	1.46%
Potassium, 7440-09-7†	296.2	0.1303 mg/L	0.00241	0.1303 mg/L	0.00241	1.85%
Selenium, 7782-49-2†	35.2	0.0203 mg/L	0.00335	0.0203 mg/L	0.00335	16.51%
Silicon, 7440-21-3†	-52.8	-0.0579 mg/L	0.00187	-0.0579 mg/L	0.00187	3.22%
Silver, 7440-22-4†	119.2	0.0000 mg/L	0.00009	0.0000 mg/L	0.00009	438.97%
Sodium, 7440-23-5†	-252.7	-0.0443 mg/L	0.01149	-0.0443 mg/L	0.01149	25.95%
Strontium, 7440-24-6†	-951.4	-0.0020 mg/L	0.00005	-0.0020 mg/L	0.00005	2.58%
Thallium, 7440-28-0†	58.7	0.0088 mg/L	0.00027	0.0088 mg/L	0.00027	3.12%
Tin, 7440-31-5†	-78.1	-0.0080 mg/L	0.00012	-0.0080 mg/L	0.00012	1.48%
Titanium, 7440-32-6†	549.3	0.0010 mg/L	0.00006	0.0010 mg/L	0.00006	6.03%
Vanadium, 7440-62-2†	-3560.8	-0.0290 mg/L	0.00026	-0.0290 mg/L	0.00026	0.90%
Zinc, 7440-66-6†	-711.5	-0.0036 mg/L	0.00006	-0.0036 mg/L	0.00006	1.59%
Zirconium, 7440-67-7†	-661.0	-0.0014 mg/L	0.00005	-0.0014 mg/L	0.00005	3.56%

Sequence No.: 82

Sample ID: 1800

Analyst:

Logged In Analyst (Original) : met

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 10/13/2006 7:07:49 PM

Data Type: Reprocessed on 10/16/2006 9:34:48 AM

Initial Sample Vol:

Sample Prep Vol:

## Mean Data: 1800

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	69950.1	100.09 %	0.517			0.52%
Ar 420.067 R	1205729.4	99.066 %	0.0885			0.09%
Scandium-IS	3196651.9	112.02 %	0.832			0.74%
Yttrium, 7440-65-5A	1688011.4	111.29 %	0.827			0.74%
Yttrium, 7440-65-5R	88403.4	110.05 %	3.161			2.87%
Aluminum, 7429-90-5†	4013.5	4.846 mg/L	0.0597	4.846 mg/L	0.0597	1.23%
QC value within limits for Aluminum, 7429-90-5		Recovery = 96.91%				
Antimony, 7440-36-0†	3098.9	0.4791 mg/L	0.00198	0.4791 mg/L	0.00198	0.41%
QC value within limits for Antimony, 7440-36-0		Recovery = 95.82%				
Arsenic, 7440-38-2†	1824.4	0.5096 mg/L	0.00290	0.5096 mg/L	0.00290	0.57%
QC value within limits for Arsenic, 7440-38-2		Recovery = 101.91%				
Barium, 7440-39-3†	93522.4	0.4882 mg/L	0.00704	0.4882 mg/L	0.00704	1.44%
QC value within limits for Barium, 7440-39-3		Recovery = 97.64%				
Beryllium, 7440-41-7†	2150716.8	0.4964 mg/L	0.00046	0.4964 mg/L	0.00046	0.09%
QC value within limits for Beryllium, 7440-41-7		Recovery = 99.29%				
Boron, 7440-42-8†	147707.9	2.4252 mg/L	0.03378	2.4252 mg/L	0.03378	1.39%
QC value within limits for Boron, 7440-42-8		Recovery = 97.01%				
Cadmium, 7440-43-9†	123043.5	0.4880 mg/L	0.00751	0.4880 mg/L	0.00751	1.54%
QC value within limits for Cadmium, 7440-43-9		Recovery = 97.60%				
Calcium, 7440-70-2†	9304.6	4.902 mg/L	0.0552	4.902 mg/L	0.0552	1.13%
QC value within limits for Calcium, 7440-70-2		Recovery = 98.04%				
Chromium, 7440-47-3†	84930.1	0.4910 mg/L	0.00717	0.4910 mg/L	0.00717	1.46%
QC value within limits for Chromium, 7440-47-3		Recovery = 98.20%				
Cobalt, 7440-48-4†	27933.5	0.4885 mg/L	0.00169	0.4885 mg/L	0.00169	0.35%
QC value within limits for Cobalt, 7440-48-4		Recovery = 97.70%				
Copper, 7440-50-8†	188279.8	0.4812 mg/L	0.00654	0.4812 mg/L	0.00654	1.36%
QC value within limits for Copper, 7440-50-8		Recovery = 96.23%				
Iron, 7439-89-6†	7336.9	4.8757 mg/L	0.05314	4.8757 mg/L	0.05314	1.09%
QC value within limits for Iron, 7439-89-6		Recovery = 97.51%				
Lead, 7439-92-1†	5589.9	0.4888 mg/L	0.00205	0.4888 mg/L	0.00205	0.42%
QC value within limits for Lead, 7439-92-1		Recovery = 97.76%				
Lithium, 7439-93-2†	30376.0	0.4857 mg/L	0.00286	0.4857 mg/L	0.00286	0.59%
QC value within limits for Lithium, 7439-93-2		Recovery = 97.15%				
Magnesium, 7439-95-4†	1539.4	4.9043 mg/L	0.03767	4.9043 mg/L	0.03767	0.77%
QC value within limits for Magnesium, 7439-95-4		Recovery = 98.09%				
Manganese, 7439-96-5†	401391.8	0.492 mg/L	0.0072	0.492 mg/L	0.0072	1.46%
QC value within limits for Manganese, 7439-96-5		Recovery = 98.35%				
Molybdenum, 7439-98-7†	15612.5	0.4821 mg/L	0.00119	0.4821 mg/L	0.00119	0.25%
QC value within limits for Molybdenum, 7439-98-7		Recovery = 96.43%				

000112

Nickel,7440-02-0† 28143.0 0.4884 mg/L 0.00738 0.4884 mg/L 0.00738 1.51%  
QC value within limits for Nickel,7440-02-0 Recovery = 97.67%

Potassium,7440-09-7† 22293.6 9.8016 mg/L 0.07741 9.8016 mg/L 0.07741 0.79%  
QC value within limits for Potassium,7440-09-7 Recovery = 98.02%

Selenium,7782-49-2† 847.8 0.4916 mg/L 0.00265 0.4916 mg/L 0.00265 0.54%  
QC value within limits for Selenium,7782-49-2 Recovery = 98.32%

Silicon,7440-21-3† 434.2 0.4739 mg/L 0.00760 0.4739 mg/L 0.00760 1.60%  
QC value within limits for Silicon,7440-21-3 Recovery = 94.78%

Silver,7440-22-4† 156415.9 0.4961 mg/L 0.00628 0.4961 mg/L 0.00628 1.27%  
QC value within limits for Silver,7440-22-4 Recovery = 99.23%

Sodium,7440-23-5† 111864.7 19.615 mg/L 0.1787 19.615 mg/L 0.1787 0.91%  
QC value within limits for Sodium,7440-23-5 Recovery = 98.07%

Strontium,7440-24-6† 231923.8 0.4871 mg/L 0.01171 0.4871 mg/L 0.01171 2.40%  
QC value within limits for Strontium,7440-24-6 Recovery = 97.42%

Thallium,7440-28-0† 3244.6 0.4908 mg/L 0.00173 0.4908 mg/L 0.00173 0.35%  
QC value within limits for Thallium,7440-28-0 Recovery = 98.16%

Tin,7440-31-5† 4809.6 0.4896 mg/L 0.00222 0.4896 mg/L 0.00222 0.45%  
QC value within limits for Tin,7440-31-5 Recovery = 97.91%

Titanium,7440-32-6† 288524.2 0.4980 mg/L 0.00043 0.4980 mg/L 0.00043 0.09%  
QC value within limits for Titanium,7440-32-6 Recovery = 99.60%

Vanadium,7440-62-2† 59725.3 0.4868 mg/L 0.00730 0.4868 mg/L 0.00730 1.50%  
QC value within limits for Vanadium,7440-62-2 Recovery = 97.36%

Zinc,7440-66-6† 95860.1 0.4876 mg/L 0.00719 0.4876 mg/L 0.00719 1.47%  
QC value within limits for Zinc,7440-66-6 Recovery = 97.53%

Zirconium,7440-67-7† 237881.9 0.4860 mg/L 0.00693 0.4860 mg/L 0.00693 1.43%  
QC value within limits for Zirconium,7440-67-7 Recovery = 97.21%

All analyte(s) passed QC.

Sequence No.: 83

Autosampler Location: 1

Sample ID: 1900

Date Collected: 10/13/2006 7:14:44 PM

Analyst:

Data Type: Reprocessed on 10/16/2006 9:34:50 AM

Logged In Analyst (Original) : met

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

## Mean Data: 1900

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ar 363.268 A	69525.6	99.483 %	0.6930			0.70%
Ar 420.067 R	1209055.8	99.340 %	0.1431			0.14%
Scandium-IS	2984761.8	104.60 %	3.867			3.70%
Yttrium,7440-65-5A	1588701.6	104.74 %	3.911			3.73%
Yttrium,7440-65-5R	85212.7	106.08 %	0.353			0.33%
Aluminum,7429-90-5†	-6.8	-0.008 mg/L	0.0068	-0.008 mg/L	0.0068	83.40%
QC value within limits for Aluminum,7429-90-5		Recovery = Not calculated				
Antimony,7440-36-0†	-8.0	-0.0012 mg/L	0.00137	-0.0012 mg/L	0.00137	110.83%
QC value within limits for Antimony,7440-36-0		Recovery = Not calculated				
Arsenic,7440-38-2†	6.6	0.0018 mg/L	0.00156	0.0018 mg/L	0.00156	87.76%
QC value within limits for Arsenic,7440-38-2		Recovery = Not calculated				
Barium,7440-39-3†	7.6	0.0000 mg/L	0.00011	0.0000 mg/L	0.00011	268.68%
QC value within limits for Barium,7440-39-3		Recovery = Not calculated				
Beryllium,7440-41-7†	99.5	0.0000 mg/L	0.00001	0.0000 mg/L	0.00001	56.55%
QC value within limits for Beryllium,7440-41-7		Recovery = Not calculated				
Boron,7440-42-8†	2205.9	0.0362 mg/L	0.00207	0.0362 mg/L	0.00207	5.72%
QC value within limits for Boron,7440-42-8		Recovery = Not calculated				
Cadmium,7440-43-9†	-13.5	-0.0001 mg/L	0.00010	-0.0001 mg/L	0.00010	189.64%
QC value within limits for Cadmium,7440-43-9		Recovery = Not calculated				
Calcium,7440-70-2†	-88.6	-0.047 mg/L	0.0057	-0.047 mg/L	0.0057	12.31%
QC value within limits for Calcium,7440-70-2		Recovery = Not calculated				
Chromium,7440-47-3†	-326.5	-0.0019 mg/L	0.00005	-0.0019 mg/L	0.00005	2.50%
QC value within limits for Chromium,7440-47-3		Recovery = Not calculated				
Cobalt,7440-48-4†	0.8	0.0000 mg/L	0.00007	0.0000 mg/L	0.00007	459.34%
QC value within limits for Cobalt,7440-48-4		Recovery = Not calculated				
Copper,7440-50-8†	-198.4	-0.0005 mg/L	0.00056	-0.0005 mg/L	0.00056	111.04%
QC value within limits for Copper,7440-50-8		Recovery = Not calculated				
Iron,7439-89-6†	-46.2	-0.0307 mg/L	0.00213	-0.0307 mg/L	0.00213	6.95%
QC value within limits for Iron,7439-89-6		Recovery = Not calculated				
Lead,7439-92-1†	13.8	0.0012 mg/L	0.00040	0.0012 mg/L	0.00040	32.79%
QC value within limits for Lead,7439-92-1		Recovery = Not calculated				

000113

Lithium, 7439-93-2†	-23.9	-0.0004 mg/L	0.00040	-0.0004 mg/L	0.00040	105.17%
QC value within limits for Lithium, 7439-93-2			Recovery = Not calculated			
Magnesium, 7439-95-4†	5.2	0.0167 mg/L	0.00555	0.0167 mg/L	0.00555	33.24%
QC value within limits for Magnesium, 7439-95-4			Recovery = Not calculated			
Manganese, 7439-96-5†	-414.0	-0.001 mg/L	0.0000	-0.001 mg/L	0.0000	7.83%
QC value within limits for Manganese, 7439-96-5			Recovery = Not calculated			
Molybdenum, 7439-98-7†	5.4	0.0002 mg/L	0.00025	0.0002 mg/L	0.00025	151.70%
QC value within limits for Molybdenum, 7439-98-7			Recovery = Not calculated			
Nickel, 7440-02-0†	-35.0	-0.0006 mg/L	0.00015	-0.0006 mg/L	0.00015	25.14%
QC value within limits for Nickel, 7440-02-0			Recovery = Not calculated			
Potassium, 7440-09-7†	85.6	0.0377 mg/L	0.01450	0.0377 mg/L	0.01450	38.50%
QC value within limits for Potassium, 7440-09-7			Recovery = Not calculated			
Selenium, 7782-49-2†	4.6	0.0027 mg/L	0.00386	0.0027 mg/L	0.00386	145.35%
QC value within limits for Selenium, 7782-49-2			Recovery = Not calculated			
Silicon, 7440-21-3†	-7.0	-0.0077 mg/L	0.00307	-0.0077 mg/L	0.00307	39.91%
QC value within limits for Silicon, 7440-21-3			Recovery = Not calculated			
Silver, 7440-22-4†	111.6	0.0003 mg/L	0.00030	0.0003 mg/L	0.00030	90.34%
QC value within limits for Silver, 7440-22-4			Recovery = Not calculated			
Sodium, 7440-23-5†	664.3	0.1165 mg/L	0.00856	0.1165 mg/L	0.00856	7.34%
QC value within limits for Sodium, 7440-23-5			Recovery = Not calculated			
Strontium, 7440-24-6†	272.9	0.0006 mg/L	0.00014	0.0006 mg/L	0.00014	24.59%
QC value within limits for Strontium, 7440-24-6			Recovery = Not calculated			
Thallium, 7440-28-0†	9.6	0.0014 mg/L	0.00078	0.0014 mg/L	0.00078	53.78%
QC value within limits for Thallium, 7440-28-0			Recovery = Not calculated			
Tin, 7440-31-5†	-24.7	-0.0025 mg/L	0.00055	-0.0025 mg/L	0.00055	21.79%
QC value within limits for Tin, 7440-31-5			Recovery = Not calculated			
Titanium, 7440-32-6†	133.5	0.0002 mg/L	0.00014	0.0002 mg/L	0.00014	62.20%
QC value within limits for Titanium, 7440-32-6			Recovery = Not calculated			
Vanadium, 7440-62-2†	-48.7	-0.0004 mg/L	0.00097	-0.0004 mg/L	0.00097	245.76%
QC value within limits for Vanadium, 7440-62-2			Recovery = Not calculated			
Zinc, 7440-66-6†	-158.1	-0.0008 mg/L	0.00005	-0.0008 mg/L	0.00005	5.78%
QC value within limits for Zinc, 7440-66-6			Recovery = Not calculated			
Zirconium, 7440-67-7†	-4.2	0.0000 mg/L	0.00006	0.0000 mg/L	0.00006	673.59%
QC value within limits for Zirconium, 7440-67-7			Recovery = Not calculated			

All analyte(s) passed QC.

**000114**

**ICP SAMPLE PREPARATION FORM**

EXTRACTION DATE/TIME:	10-12-06		15105	BATCH NO:	334426	
MATRIX:	WATER <input checked="" type="checkbox"/>	SOIL <input type="checkbox"/>	TCLP EXT <input type="checkbox"/>	ORGANIC <input type="checkbox"/>	METHOD:	200.7 <input type="checkbox"/> 3010A <input checked="" type="checkbox"/> 3050B <input type="checkbox"/> 3051 <input type="checkbox"/>
CLIENT	CLIENT ID	GCAL ID	INITIAL VOL WT mL g	FINAL VOLUME (mL)	COMMENTS	REAGENTS/ STANDARDS
1 QC ACCOUNT	MB for HBN 334426 [DGM/12848]	417616	(50)	50		HNO3
2 QC ACCOUNT	LCS for HBN 334426 [DGM/12848]	417617				3344-61-17
3 4482	FWPSW01-001	20610122401				HCL
4 4482	FWPSW01-001	20610122401				3344-61-12
5 4482	FWPSW01-001 MS	20610122402				H2O2
6 4482	FWPSW01-001 MS	20610122402				
7 4482	FWPSW01-001 MSD	20610122403				
8 4482	FWPSW01-001 MSD	20610122403				
9 4482	FWPSW02-002	20610122404				
10 4482	FWPSW02-002	20610122404				
11 4482	FWPSW03-003	20610122405				
12 4482	FWPSW03-003	20610122405				
13 4482	SPSW01-001	20610122406				
14 4482	SPSW01-001	20610122406				
15 4482	SPSW02-002	20610122407				
16 4482	SPSW02-002	20610122407				
17 4482	SPSW03-003	20610122408				SPIKING SOLUTIONS (LCS/MS)
18 4482	SPSW03-003	20610122408				
19 4482	SP-004-FB	20610122409	↓	↓		GCALI-1 - 250uL
20						3344-61-16
21						GCALI-2 - 250uL
22						3344-61-17
23						ORGANOMETALLIC ICP SPIKE 0.025g
24						
25						
26						
27						
28						

COMMENTS:

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BLOCK ID	TECHNICIAN	DATE
B2	JRC	10-12-06
REPIPET BOTTLES VERIFIED	REVIEW	DATE
JRC	MAP	10/12/06

000115

GCAL

**CHAIN OF CUSTODY RECORD**

20610122

20000 m

8-18-5

1980-2380

卷之三

We cannot accept verbal changes. Please fax written changes to (225) 767-5717.

016726

# PRESERVATION CHECKLIST / COOLER RECEIPT

## Gulf Coast Analytical Laboratories, Inc.

WO: 206101224  
 Desc:  
 Work ID: Gulfco Marine Maintenance Site  
 Project Seq: 48342  
 Client: 4482 - Pastor, Behling, & Wheeler  
 Profile: 78418 - GULFCO - Gulfco Marine Maintenance Site

Type: D  
 Report: REVIEW\_RPT  
 Status: WP  
 Created: 10/12/2006 13:58  
 QA:  
 PO: 1352

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### WORKORDER SAMPLES

Container ID	Type	Preservative	pH PRESERVATIVE			VOA HEADSPACE			CONTAINER CONDITION
			A	U	N/A	A	U	N/A	
20610122401-1	OC	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X	OK
20610122401-2	OC	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X	OK
Container ID	Type	Preservative	A	U	N/A	A	U	N/A	CONTAINER CONDITION
20610122402-1	OC	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X	OK
20610122402-2	OC	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X	OK
Container ID	Type	Preservative	A	U	N/A	A	U	N/A	CONTAINER CONDITION
20610122403-1	OC	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X	OK
20610122403-2	OC	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X	OK
Container ID	Type	Preservative	A	U	N/A	A	U	N/A	CONTAINER CONDITION
20610122404-1	OC	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X	OK
20610122404-2	OC	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X	OK
Container ID	Type	Preservative	A	U	N/A	A	U	N/A	CONTAINER CONDITION
20610122405-1	OC	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X	OK
20610122405-2	OC	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X	OK
Container ID	Type	Preservative	A	U	N/A	A	U	N/A	CONTAINER CONDITION
20610122406-1	OC	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X	OK
20610122406-2	OC	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X	OK
Container ID	Type	Preservative	A	U	N/A	A	U	N/A	CONTAINER CONDITION
20610122407-1	OC	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X	OK
20610122407-2	OC	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X	OK
Container ID	Type	Preservative	A	U	N/A	A	U	N/A	CONTAINER CONDITION
20610122408-1	OC	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X	OK
20610122408-2	OC	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X	OK

## pH PRESERVATIVE      VOA HEADSPACE

Container ID	Type	Preservative	A	U	N/A	A	U	N/A	CONTAINER CONDITION
20610122409-1	OC	HNO3				X			OK

A = ACCEPTABLE

U = UNACCEPTABLE

N/A = NOT APPLICABLE

COOLER (S) TEMPERATURE

*OK*

LIMIT = 4C + 1 - 2C

U

MAXIMUM VOLATILE HEADSPACE BUBBLE 6MM

**Custody Seal**  
used  Yes  No

in tact  Yes  NoLABEL(S)  
VERIFIED*RBC*

CUSTODIAN

*ML**JRC*